

# **STIC Search Report**

## **EIC 1700**

**STIC Database Tracking Number: 101210**

**TO: Callie Shosho**  
**Location: CP3 4D01**  
**Art Unit : 1774**  
**August 20, 2003**

**Case Serial Number: 10/035736**

**From: John Calve**  
**Location: EIC 1700**  
**CP3/4-3D62**  
**Phone: 308-4139**

**John.Calve@uspto.gov**

### **Search Notes**



# STIC Search Results Feedback Form

**EIC17000**

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Kathleen Fuller, EIC 1700 Team Leader  
308-4290, CP3/4-3D62

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1713

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC1700 CP3/4 3D62



	L #	Hits	Search Text	DBs	Time Stamp
1	L1	68	(ultraviolet or uv) near3 (absorbing or absorber) near5 (quaternary adj ammonium or quaternized or quaternary)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:50
2	L4	20	(hydroxybenzophenone or hydroxy adj benzophenone) near10 (quaternary or quaterniz\$5 or ammonium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:48
3	L5	2875	(dialkylaminobenzoate or benzoic or aminobenzoate or benzoate) near10 (quaternary or quaterniz\$5 or ammonium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 11:38
4	L6	215	(2 3 4 5) and ink	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 11:43
5	L7	26	(2 3 4) and ink	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 11:43
6	L2	39	benzotriazol adj5 (hydroxyphenyl or hydroxy adj phenyl or aminoethyltriethylammonium adj chloride or aminoethyl adj triethylammonium adj chloride)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:44
7	L9	3	((("6569511") or ("6445486"))).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 11:58
8	L10	12	wo-2001040858-\$.did. or jp-2000141874-\$.did. or jp-11254812-\$.did. or jp-11099740-\$.did. or jp-61192781-\$.did. or jp-45014151-\$.did. or jp-61192778-\$.did. or jp-50121178-\$.did. or jp-60123448-\$.did. or jp-31192780-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:03

	L #	Hits	Search Text	DBs	Time Stamp
9	L11	0	jp-50121178-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:03
10	L12	5	wo-2001040858-\$.did. or ep-374751-\$.did. or ep-357545-\$.did. or de-2003540-\$.did. or ep-180993-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:07
11	FAM ILY	1	1990-194962.NRAN.	DERWENT	2003/08/ 21 12:05
12	L14	1	wo-200140858-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:07
13	L15	0	rd-449015-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:07
14	L16	8	((("5096781") or ("5037979") or ("4937348") or ("3652532"))).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:09
15	L17	9	ep-262821-\$.did. or ep-224909-\$.did. or ep-75202-\$.did. or ep-165608-\$.did. or ep-272576-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:10
16	L18	9	(ultraviolet or uv) near3 (absorbing or absorber) near5 cationic near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:12
17	L3	391	(hydroxybenzophenone or hydroxy adj benzophenone) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:13
18	L8	20	(hydroxybenzophenone or hydroxy adj benzophenone) near10 (quaternary or quaterniz\$5 or ammonium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:17

	L #	Hits	Search Text	DBs	Time Stamp
19	L19	10	(ultraviolet or uv) near3 (absorbing or absorber) near5 (quaternary adj ammonium or quaternized or quaternary or quaternized) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:21
20	L20	2	light near3 (absorbing or absorber) near5 (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:35
21	L22	0	(ultraviolet or uv) near3 (absorbing or absorber) near10 choline adj chloride	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:22
22	L21	4	choline adj chloride near3 (dimethylaminobenzoic or diemthylaminobenzoate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:28
23	L23	11	("4256493"   "5089250" "5610257"   "5643356" "5686633"   "5719204" "6106599"   "6124376" "6142618"   "6200369" "6270214").PN.	USPAT	2003/08/ 21 12:23
24	L25	0	lightfastness near3 (absorbing or absorber) near5 (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:25
25	L24	3	23 and (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:25
26	L26	4	lightfastness near10 (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:27

	L #	Hits	Search Text	DBs	Time Stamp
27	L27	4	ep-867486-\$.did. or wo-9720000-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:27
28	L28	10	jp-10007958-\$.did. or jp-10007969-\$.did. or jp-10278435-\$.did. or jp-11099740-\$.did. or jp-2000141875-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:29
29	L29	3	(ultraviolet or uv or light) near3 (stabilizer or stabilizing) near5 (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:36
30	L32	284	(ultraviolet or uv or light) near3 (absorber or absorbing) same (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic)	EPO; JPO; DERWENT	2003/08/ 21 12:38
31	L30	30	(ultraviolet or uv or light) near3 (stabilizer or stabilizing) same (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic) same (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:37
32	L31	45	(ultraviolet or uv or light) near3 (stabilizer or stabilizing) same (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic)	EPO; JPO; DERWENT	2003/08/ 21 12:38

	L #	Hits	Search Text	DBs	Time Stamp
33	L33	7	(ultraviolet or uv or light) near3 (stabilizer or stabilizing) near5 (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic)	EPO; JPO; DERWENT	2003/08/ 21 12:38
34	L34	91	(ultraviolet or uv or light) near3 (absorber or absorbing) near5 (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic)	EPO; JPO; DERWENT	2003/08/ 21 12:39
35	L35	0	benzotriazol adj5 (ammonium adj chloride)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:45
36	L36	0	benzotriazol adj10 (ammonium adj chloride)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:45
37	L38	8	benzotriazol adj5 \$15ammonium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:47
38	L40	32	(hydroxybenzophenone or hydroxy adj benzophenone) near10 \$15ammonium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 13:10
39	L41	39	stabilizer near5 (quaternary adj ammonium or quaternized or quaternary) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:53
40	L42	2	wo-9720000-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 13:34
41	L43	2	("5885337").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 13:11

	L #	Hits	Search Text	DBs	Time Stamp
42	L44	2	43 and ink	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 13:11



=> file reg

FILE 'REGISTRY' ENTERED AT 09:54:41 ON 20 AUG 2003  
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STRUCTURE FILE UPDATES: 18 AUG 2003 HIGHEST RN 569296-21-5  
DICTIONARY FILE UPDATES: 18 AUG 2003 HIGHEST RN 569296-21-5

=> d his nofile

(FILE 'HOME' ENTERED AT 08:42:23 ON 20 AUG 2003)

FILE 'HCA' ENTERED AT 08:42:54 ON 20 AUG 2003  
E US20030119939/PN

L1 1 SEA ABB=ON PLU=ON US2003119939/PN  
D SCAN  
SEL L1 RN

FILE 'REGISTRY' ENTERED AT 08:43:11 ON 20 AUG 2003

L2 9 SEA ABB=ON PLU=ON (119-66-4/BI OR 14234-65-2/BI OR 171504-00-  
0/BI OR 191678-31-6/BI OR 223463-29-4/BI OR 3399-67-5/BI OR  
501-97-3/BI OR 7632-00-0/BI OR 88-74-4/BI)  
D SCAN

L3 6 SEA ABB=ON PLU=ON L2 AND (1-10/N AND 1-5/NR)  
D SCAN

FILE 'LREGISTRY' ENTERED AT 08:46:30 ON 20 AUG 2003

FILE 'REGISTRY' ENTERED AT 08:47:41 ON 20 AUG 2003  
D SCAN L2

FILE 'LREGISTRY' ENTERED AT 08:47:54 ON 20 AUG 2003  
STR

L4

FILE 'REGISTRY' ENTERED AT 09:23:32 ON 20 AUG 2003

L5 14 SEA SSS SAM L4

L6 STR L4

L7 11 SEA SSS SAM L6  
D QUE STAT L7

L8 166 SEA SSS FUL L6  
SAVE L8 SHOSHO736/A

L9 35074 SEA ABB=ON PLU=ON 333.415?/RID

L10 67 SEA ABB=ON PLU=ON L8 AND L9

L11 99 SEA ABB=ON PLU=ON L8 NOT L10

FILE 'HCA' ENTERED AT 09:26:59 ON 20 AUG 2003

L12 66 SEA ABB=ON PLU=ON L8

L13 17 SEA ABB=ON PLU=ON L10

L14 52 SEA ABB=ON PLU=ON L11

L15 17 SEA ABB=ON PLU=ON L13 AND 1907-2001/PY,PRY  
L16 48 SEA ABB=ON PLU=ON L14 AND 1907-2001/PY,PRY  
L17 30247 SEA ABB=ON PLU=ON INK?(A)JET? OR INKJET? OR INK?(A)PRINT?  
L18 6 SEA ABB=ON PLU=ON L15 AND L17  
L19 0 SEA ABB=ON PLU=ON L16 AND L17  
L20 194773 SEA ABB=ON PLU=ON INK? OR PRINT?  
L21 0 SEA ABB=ON PLU=ON L16 AND L20

FILE 'STNGUIDE' ENTERED AT 09:29:35 ON 20 AUG 2003

FILE 'REGISTRY' ENTERED AT 09:32:23 ON 20 AUG 2003

L22 1 SEA ABB=ON PLU=ON L11 AND 113184-23-9  
L23 98 SEA ABB=ON PLU=ON L11 NOT L22  
E 113-23-9/RN  
E 113184-23-9/RN  
L24 1 SEA ABB=ON PLU=ON 113184-23-9/RN  
D SCAN

FILE 'HCA' ENTERED AT 09:33:24 ON 20 AUG 2003

L25 42 SEA ABB=ON PLU=ON L23  
L26 11 SEA ABB=ON PLU=ON L24  
L27 1 SEA ABB=ON PLU=ON L25 AND L26  
D SCAN L26  
L28 1 SEA ABB=ON PLU=ON L27 AND 1907-2001/PY,PRY  
L29 42 SEA ABB=ON PLU=ON L25 OR L28  
L30 10 SEA ABB=ON PLU=ON L26 AND 1907-2001/PY,PRY  
L31 237374 SEA ABB=ON PLU=ON 42/SC,SX  
L32 2 SEA ABB=ON PLU=ON L29 AND L31  
L33 3 SEA ABB=ON PLU=ON L30 AND L31  
L34 42 SEA ABB=ON PLU=ON L29 OR L32  
L35 7 SEA ABB=ON PLU=ON L30 NOT L33

FILE 'REGISTRY' ENTERED AT 09:37:03 ON 20 AUG 2003

L36 15 SEA ABB=ON PLU=ON L10 AND 1-10/S

FILE 'HCA' ENTERED AT 09:39:17 ON 20 AUG 2003

L37 6 SEA ABB=ON PLU=ON L15 AND L20  
L38 3 SEA ABB=ON PLU=ON L15 AND L31  
L39 17 SEA ABB=ON PLU=ON L37 OR L38 OR L18 OR L15  
L40 1 SEA ABB=ON PLU=ON FIBROSIS? AND L34  
L41 41 SEA ABB=ON PLU=ON L34 NOT L40  
L42 5 SEA ABB=ON PLU=ON L41 AND BACTER?  
D SCAN  
L43 36 SEA ABB=ON PLU=ON L41 NOT L42  
L44 0 SEA ABB=ON PLU=ON L43 AND L20  
L45 6 SEA ABB=ON PLU=ON L43 AND POLYM?  
D SCAN  
L46 30 SEA ABB=ON PLU=ON L43 NOT L45  
L47 1 SEA ABB=ON PLU=ON L46 AND (L17 OR L20 OR L31)  
L48 1 SEA ABB=ON PLU=ON L45 AND (L17 OR L20 OR L31)  
D SCAN  
L49 31 SEA ABB=ON PLU=ON L46 OR L48

FILE 'LCA' ENTERED AT 09:45:48 ON 20 AUG 2003

FILE 'HCA' ENTERED AT 09:46:32 ON 20 AUG 2003

D SCAN L1  
L50 408720 SEA ABB=ON PLU=ON 74/SX,SC  
L51 2 SEA ABB=ON PLU=ON L41 AND L50  
L52 31 SEA ABB=ON PLU=ON L49 OR L51

L53 1002267 SEA ABB=ON PLU=ON COLOR? OR COLOUR? OR DYE? OR PIGMENT? OR STAIN? OR PAINT? OR CHROMA# OR CHROMOGEN? OR CHROMOPHOR? OR TINCT? OR TINT?

L54 6 SEA ABB=ON PLU=ON L34 AND L53

L55 31 SEA ABB=ON PLU=ON L52 OR L54

L56 6 SEA ABB=ON PLU=ON L52 AND (L17 OR L20 OR L31 OR L53 OR L50)

L57 25 SEA ABB=ON PLU=ON L55 NOT L56

L58 25 SEA ABB=ON PLU=ON L57 NOT L26

L59 12 SEA ABB=ON PLU=ON L15 AND (L17 OR L20 OR L31 OR L53 OR L50)

L60 0 SEA ABB=ON PLU=ON L59 NOT L15

L61 5 SEA ABB=ON PLU=ON L15 NOT L59

L62 11 SEA ABB=ON PLU=ON L59 NOT L1

L63 6 SEA ABB=ON PLU=ON L56 NOT L1

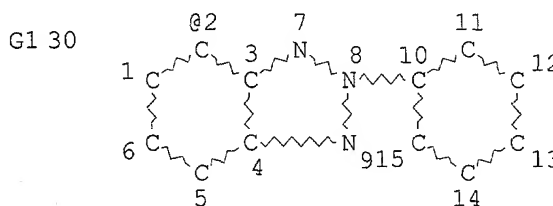
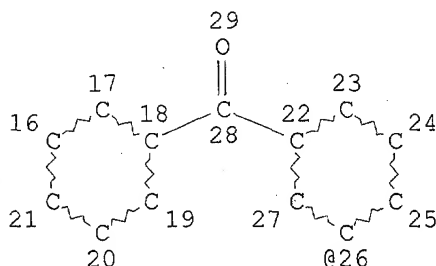
L64 25 SEA ABB=ON PLU=ON L57 NOT L1

L65 11 SEA ABB=ON PLU=ON L59 NOT L1

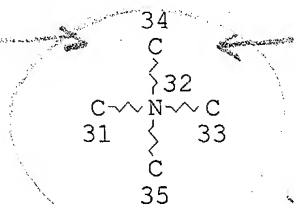
FILE 'REGISTRY' ENTERED AT 09:54:41 ON 20 AUG 2003

=> d que stat L8

L6 STR



Calve  
2 things



① Since I retrieved so few answers, I didn't specify that <sup>this</sup> group had to be alkylene.

OH 37

② Unattached to structure.

VAR G1=2/26

NODE ATTRIBUTES:

NSPEC IS RC AT 31

NSPEC IS RC AT 33

NSPEC IS RC AT 34

NSPEC IS RC AT 35

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 5

NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE

L8 166 SEA FILE=REGISTRY SSS FUL L6

100.0% PROCESSED 632 ITERATIONS

166 ANSWERS

SEARCH TIME: 00.00.01

=> file hca

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FILE COVERS 1907 - 14 Aug 2003 VOL 139 ISS 8  
FILE LAST UPDATED: 14 Aug 2003 (20030814/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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The utility for these records are the closest I could find to your application.

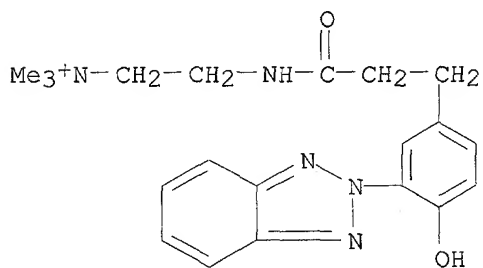
\*\*\*\*\*

=> d L59 ibib abs hitind hitstr

L59 ANSWER 1 OF 12 HCA COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 139:44260 HCA  
TITLE: **Ink** compositions containing  
quaternary-substituted lightfastness agents  
INVENTOR(S): Smith, Thomas W.; McGrane, Kathleen M.  
PATENT ASSIGNEE(S): Xerox Corporation, USA  
SOURCE: U.S. Pat. Appl. Publ., 19 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003119939	A1	20030626	US 2001-35736	20011107 <--
PRIORITY APPLN. INFO.:			US 2001-35736	20011107 <--
OTHER SOURCE(S):		MARPAT 139:44260		
AB	Disclosed is an <b>ink</b> compn. comprising (a) water, (b) an anionic <b>dye</b> , (c) a polyquaternary amine compd., and (d) a quaternary ammonium substituted UV absorbing compd. Another embodiment of the present invention is directed to an <b>ink</b> compn. comprising (a) water, (b) a complex of (i) an anionic <b>dye</b> and (ii) a polyquaternary amine compd., and (c) a quaternary ammonium substituted UV			

absorbing compd.  
IC ICM C03C017-00  
ICS C09D005-00  
NCL 523160000; 523161000  
CC **74-6** (Radiation Chemistry, Photochemistry, and Photographic and  
Other Reprographic Processes)  
Section cross-reference(s): **42**  
ST **ink jet printing** quaternary substituted  
lightfastness agents  
IT **Ink-jet printing**  
**Inks**  
(ink compns. contg. quaternary-substituted lightfastness  
agents)  
IT 88-74-4, 2-Nitroaniline 501-97-3 3399-67-5 7632-00-0, Sodium nitrite  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of quaternary-substituted lightfastness agents for **ink**  
compns.)  
IT 119-66-4P 14234-65-2P 171504-00-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(prepn. of quaternary-substituted lightfastness agents for **ink**  
compns.)  
IT 191678-31-6P **223463-29-4P**  
RL: SPN (Synthetic preparation); TEM (Technical or engineered material  
use); PREP (Preparation); USES (Uses)  
(quaternary-substituted lightfastness agents for **ink** compns.)  
IT **223463-29-4P**  
RL: SPN (Synthetic preparation); TEM (Technical or engineered material  
use); PREP (Preparation); USES (Uses)  
(quaternary-substituted lightfastness agents for **ink** compns.)  
RN 223463-29-4 HCA  
CN Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-  
oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



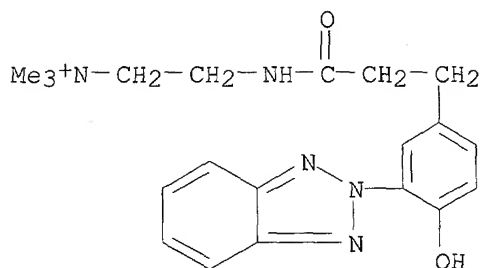
● Cl<sup>-</sup>

=> d L59 2-12 ibib abs hitind hitstr

L59 ANSWER 2 OF 12 HCA COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 138:409416 HCA  
TITLE: Recording sheets with lightfastness-enhancing  
siloxanes  
INVENTOR(S): Smith, Thomas W.; McGrane, Kathleen M.  
PATENT ASSIGNEE(S): Xerox Corporation, USA

SOURCE: U.S., 34 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6569511	B1	20030527	US 2001-2342	20011115 <--
PRIORITY APPLN. INFO.:			US 2001-2342	20011115 <--
AB	Disclosed is a recording sheet which comprises a substrate and an image-receiving coating situated on at least one surface of the substrate, said image-receiving coating being suitable for receiving images of an aq. <b>ink</b> , said image-receiving coating comprising a lightfastness agent which is a polysiloxane having thereon a hydrophilic moiety and a lightfastness moiety.			
IC	ICM B32B003-00			
NCL	428195000; 347105000; 428447000			
CC	74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes) Section cross-reference(s): 35, 38			
ST	<b>ink jet</b> recording sheets lightfastness enhancing siloxanes			
IT	<b>Ink-jet</b> recording sheets (recording sheets with lightfastness-enhancing siloxanes)			
IT	6628-37-1DP, Sodium 2-hydroxy-4-methoxybenzophenone-5-sulfonate, reaction products with diemthylsilanediol-trimethylaminopropyl methylsilanediol copolymer 46874-86-6DP, reaction products with dimethylsilanediol-ethylene oxide-methylsilanediol graft copolymer Me ether 171483-98-0DP, Dimethylsilanediol-ethylene oxide-methylsilanediol graft copolymer methyl ether, reaction products <b>223463-29-4DP</b> , reaction products with diemthylsilanediol-ethylene oxide-methylsilanediol graft copolymer Me ether 531534-02-8DP, reaction products with dimethylsilanediol-ethylene oxide-methylsilanediol graft copolymer Me ether 532383-89-4DP, QMS 435, reaction products with sodium 2-hydroxy-4-methoxybenzophenone-5-sulfonate RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (recording sheets with lightfastness-enhancing siloxanes)			
IT	<b>223463-29-4DP</b> , reaction products with diemthylsilanediol-ethylene oxide-methylsilanediol graft copolymer Me ether RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (recording sheets with lightfastness-enhancing siloxanes)			
RN	223463-29-4 HCA			
CN	Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)			

● Cl<sup>-</sup>

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L59 ANSWER 3 OF 12 HCA COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 137:208447 HCA  
 TITLE: Electroactive materials and beneficial agents having a solubilizing moiety  
 INVENTOR(S): Lomprey, Jeffrey R.; Guarr, Thomas F.; Baumann, Kelvin L.; Giri, Punam  
 PATENT ASSIGNEE(S): Gentex Corporation, USA  
 SOURCE: U.S., 18 pp., Cont.-in-part of U.S. Ser. No. 454,043.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

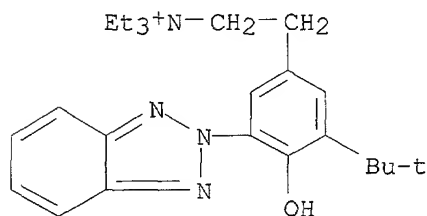
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6445486	B1	20020903	US 2000-724118	20001128 <--
US 6262832	B1	20010717	US 1999-454043	19991203 <--
JP 2003515791	T2	20030507	JP 2001-542265	20001201 <--
US 2002008897	A1	20020124	US 2001-907047	20010717 <--
US 6496294	B2	20021217		
US 2002141032	A1	20021003	US 2001-54108	20011113 <--
US 2003030883	A1	20030213	US 2002-211485	20020802 <--
US 2003053187	A1	20030320	US 2002-283506	20021030 <--
PRIORITY APPLN. INFO.:			US 1999-454043	A2 19991203 <--
			US 2000-724118	A 20001128 <--
			WO 2000-US32632	W 20001201 <--
			US 2001-54108	A2 20011113 <--

OTHER SOURCE(S): MARPAT 137:208447

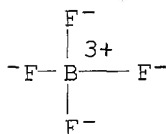
AB Electrochromic media for use in an electrochromic device which comprise .gtoreq.1 solvent; a cathodic electroactive material; and an anodic electroactive material are described in which .gtoreq.1 of the cathodic and anodic electroactive materials is electrochromic; and .gtoreq.1 of the cathodic and anodic electroactive materials is assocd. with a solubilizing moiety which serves to increase soly. of one or both of the assocd. cathodic and anodic electroactive materials relative to the same without the solubilizing moiety. Electrochromic media are also described which comprise a beneficial agent which includes a solubilizing moiety which serves to increase soly. of the beneficial agent relative to the same without the solubilizing moiety. Electrochromic devices employing the

media are also described.

IC ICM G02F001-15  
ICS G02F011-53; F21V009-00  
NCL 359265000  
CC 74-9 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
Section cross-reference(s): 76  
IT 59568-28-4P, Octamethylferrocene 342597-00-6P **342597-02-8P**  
342597-04-0P 342597-06-2P 342597-07-3P 342603-27-4P 342791-20-2P  
342791-23-5P 342791-25-7P 342791-27-9P 342791-30-4P 342791-32-6P  
RL: DEV (Device component use); NUU (Other use, unclassified); SPN  
(Synthetic preparation); PREP (Preparation); USES (Uses)  
(electroactive material and beneficial agents having solubilizing moieties for use in electrochromic devices)  
IT **342597-02-8P**  
RL: DEV (Device component use); NUU (Other use, unclassified); SPN  
(Synthetic preparation); PREP (Preparation); USES (Uses)  
(electroactive material and beneficial agents having solubilizing moieties for use in electrochromic devices)  
RN 342597-02-8 HCA  
CN Benzeneethanaminium, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-N,N,N-triethyl-4-hydroxy-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)  
CM 1  
CRN 342597-01-7  
CMF C24 H35 N4 O



CM 2  
CRN 14874-70-5  
CMF B F4  
CCI CCS



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L59 ANSWER 4 OF 12 HCA COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 137:24103 HCA  
TITLE: Use of benzotriazole UV-absorbers for protection of hair  
CORPORATE SOURCE: Ciba Specialty Chemicals Inc., UK



SOURCE: Research Disclosure (2001), 449(Sept.),  
 P1460-P1464 (No. 449015)  
 CODEN: RSDSBB; ISSN: 0374-4353  
 PUBLISHER: Kenneth Mason Publications Ltd.  
 DOCUMENT TYPE: Journal; Patent  
 LANGUAGE: English  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 449015		20010910		

PRIORITY APPLN. INFO.: RD 2001-449015 20010910

AB Ciba Specialty Chems. came up with uncharged and cationic benzotriazole UV absorbers exhibiting very good substantivity in respect to human hair and provide effective UV protection of the hair and of natural or artificial hair **color**. Cosmetic preps. contain 0.05-20% by wt., based on the total wt. of the compn., of one UV absorber mixts. or UV absorber antioxidant mixts. Various examples of C1-12 compds. are presented, illustrating the combinations of UV absorbers and antioxidants in cosmetic preps. which are useful to protect hair and natural artificial hair **color**.

CC 62-3 (Essential Oils and Cosmetics)

IT 121-79-9 131-57-7 584-45-2D, polysiloxane deriv. 4065-45-6  
 5466-77-3 6197-30-4 15087-24-8 24727-94-4 27503-81-7 36861-47-9  
 52793-97-2 56039-58-8 70356-09-1 92484-48-5 92761-26-7  
 103597-45-1 147897-12-9 154702-15-5 155633-54-8 156679-41-3  
 177190-98-6 180898-37-7 187393-00-6 340964-06-9 340964-13-8  
 340964-14-9 340964-15-0 340964-16-1  
 340964-18-3

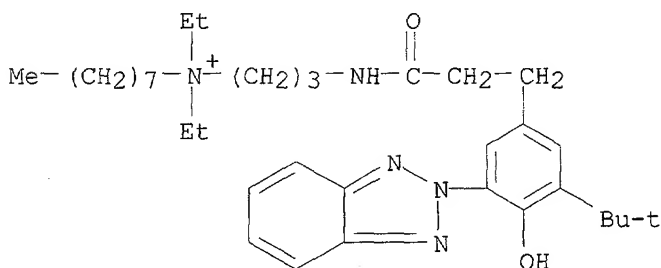
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (benzotriazole UV-absorbers for protection of hair)

IT 340964-14-9 340964-15-0 340964-18-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (benzotriazole UV-absorbers for protection of hair)

RN 340964-14-9 HCA

CN 1-Octanaminium, N-[3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]propyl]-N,N-diethyl-, bromide (9CI) (CA INDEX NAME)

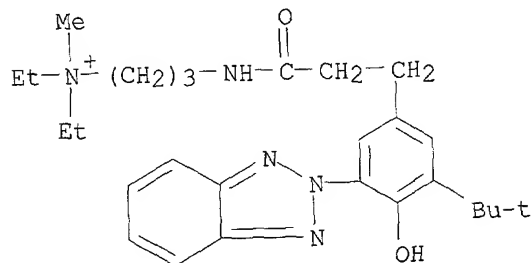


● Br<sup>-</sup>

RN 340964-15-0 HCA

CN 1-Propanaminium, 3-[[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

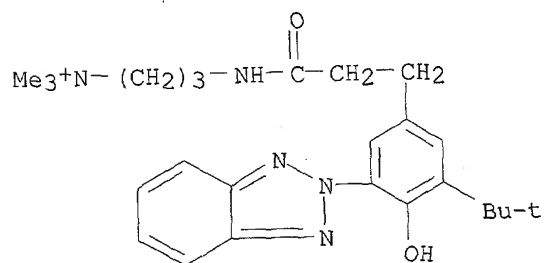
CRN 340964-09-2  
CMF C27 H40 N5 O2

CM 2

CRN 21228-90-0  
CMF C H3 O4 SMe-O-SO<sub>3</sub><sup>-</sup>

RN 340964-18-3 HCA  
CN 1-Propanaminium, 3-[[3-[[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, methyl sulfate (salt)  
(9CI) (CA INDEX NAME)

CM 1

CRN 340964-17-2  
CMF C25 H36 N5 O2

CM 2

CRN 21228-90-0  
CMF C H3 O4 SMe-O-SO<sub>3</sub><sup>-</sup>

L59 ANSWER 5 OF 12 HCA COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 135:26940 HCA

TITLE: Electroactive materials and beneficial agents having a solubilizing moiety  
 INVENTOR(S): Lomprey, Jeffrey R.; Guarr, Thomas F.; Baumann, Kelvin L.; Giri, Punam  
 PATENT ASSIGNEE(S): Gentex Corp., USA  
 SOURCE: PCT Int. Appl., 71 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040858	A1	20010607	WO 2000-US32632	20001201 <--
W: AT, AU, BG, BR, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, ID, IL, IN, JP, KR, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, TR, UA, YU, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
US 6262832	B1	20010717	US 1999-454043	19991203 <--
EP 1234211	A2	20020828	EP 2000-983831	20001201 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003515791	T2	20030507	JP 2001-542265	20001201 <--
US 2002008897	A1	20020124	US 2001-907047	20010717 <--
US 6496294	B2	20021217		
PRIORITY APPLN. INFO.:			US 1999-454043	A 19991203 <--
			US 2000-724118	A 20001128 <--
			WO 2000-US32632	W 20001201 <--

OTHER SOURCE(S): MARPAT 135:26940

AB The invention relates to electroactive materials and beneficial agents for use in electrochromic devices and to an electroactive material and/or beneficial agent assocd. with a solubilizing moiety which serves to increase soly. of the assocd. material or agent relative to the same without such a solubilizing moiety. An electrochromic medium for use in an electrochromic device comprising a substrate having a front and rear surface, a 2nd substrate having a front and rear surface, and a chamber, substrates that may be coated with elec. conductive materials having a bonding sealing member, .gtoreq.1 solvent at cathodic electroactive material, an anodic electroactive material, an optional beneficial agent, where .gtoreq.1 of the cathodic electroactive material, anodic electroactive material, and/or beneficial agent is assocd. with a solubilizing moiety which serves to increase soly. of the assocd. material or agent relative to the same without the solubilizing moiety.

IC G02F001-15

CC 74-9 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
 Section cross-reference(s): 76

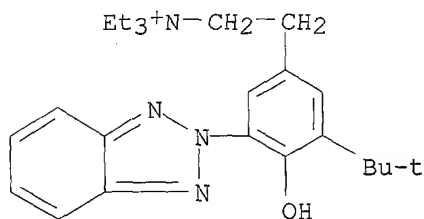
IT 59568-28-4P, Octamethylferrocene 342597-00-6P 342597-02-8P  
 342597-04-0P 342597-06-2P 342597-07-3P 342603-27-4P 342791-20-2P  
 342791-23-5P 342791-25-7P 342791-27-9P 342791-30-4P 342791-32-6P  
 RL: NUU (Other use, unclassified); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (electroactive material and beneficial agents having solubilizing moiety for use in electrochromic devices)

IT 342597-02-8P  
 RL: NUU (Other use, unclassified); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (electroactive material and beneficial agents having solubilizing

moiety for use in electrochromic devices)  
RN 342597-02-8 HCA  
CN Benzeneethanaminium, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-N,N,N-triethyl-4-hydroxy-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

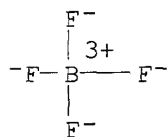
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CRN 342597-01-7  
CMF C24 H35 N4 O



CM 2

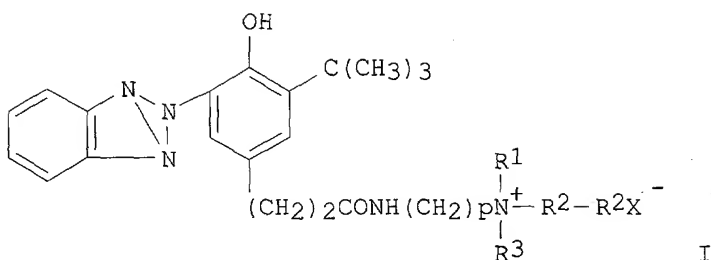
CRN 14874-70-5  
CMF B F4  
CCI CCS



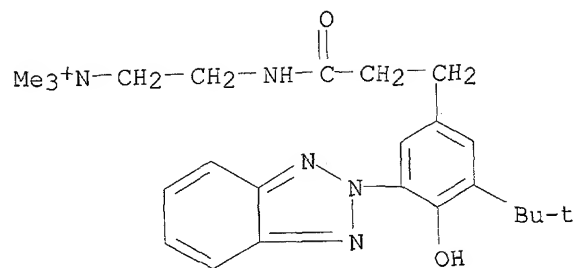
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L59 ANSWER 6 OF 12 HCA COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 132:354763 HCA  
TITLE: **Ink-jet** recording sheet providing durable image  
INVENTOR(S): Tsuchida, Tetsuo; Meguro, Tatsuya; Inazu, Naoko  
PATENT ASSIGNEE(S): Oji Paper Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

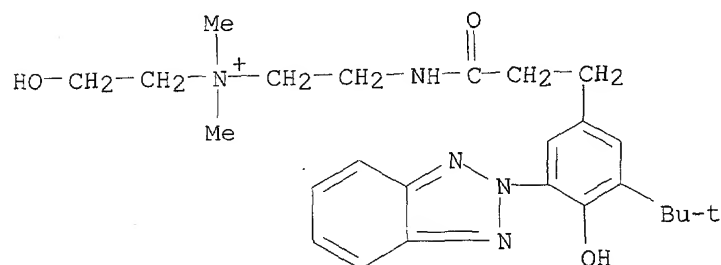
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000141874	A2	20000523	JP 1998-319020	19981110 <--
PRIORITY APPLN. INFO.:			JP 1998-319020	19981110 <--
OTHER SOURCE(S):		MARPAT 132:354763		
GI				



- AB The title **ink jet** recording sheet, on which images are formed by using aq. **inks**, contains .gtoreq.1 UV absorbent of the formula I (R1-3 = H, C1-4 alkyl, C1-4 hydroxyalkyl; X- = org. or inorg. anion; p = 2-6) and dimethyldiallylammonium chloride-acrylamide copolymer as a cationic polymer. The sheet provides high d. images with improved lightfastness and water resistance.
- IC ICM B41M005-00  
ICS B41J002-01; C09K003-00
- CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **ink jet printing** sheet UV absorbent;  
quaternary ammonium compd polymer **printing** sheet; allylammonium acrylamide copolymer **printing** sheet
- IT **Ink-jet** recording sheets  
UV stabilizers  
(**ink-jet printing** sheet contg. UV absorbent and cationic polymer)
- IT Quaternary ammonium compounds, uses  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(polymers; **ink-jet printing** sheet contg. UV absorbent and cationic polymer)
- IT 29829-57-0, Sumirez Resin 1001 268741-88-4 268741-90-8  
268741-92-0  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(**ink-jet printing** sheet contg. UV absorbent and cationic polymer)
- IT 268741-88-4 268741-90-8  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(**ink-jet printing** sheet contg. UV absorbent and cationic polymer)
- RN 268741-88-4 HCA
- CN Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

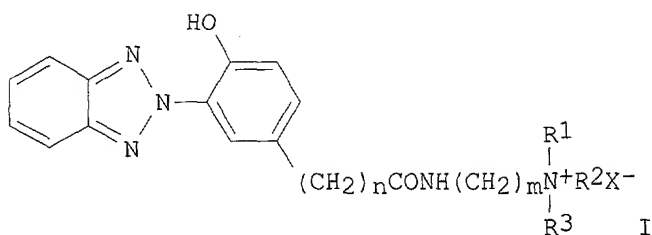
● Cl<sup>-</sup>

RN 268741-90-8 HCA  
 CN Ethanaminium, N-[2-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]ethyl]-2-hydroxy-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

L59 ANSWER 7 OF 12 HCA COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 131:235778 HCA  
 TITLE: **Ink-jet** recording material for water-soluble **ink**  
 INVENTOR(S): Takahashi, Satomi; Kitamura, Tatsu; Oshima, Kazuaki  
 PATENT ASSIGNEE(S): Oji Paper Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11254812	A2	19990921	JP 1998-62877	19980313 <--
PRIORITY APPLN. INFO.:			JP 1998-62877	19980313 <--
OTHER SOURCE(S):			MARPAT 131:235778	
GI				



AB The **ink-jet** recording material has a recording layer on a support, the recording layer has fine **pigment** particles of a 3-40 nm av. primary diam. and of .1 to req. 300 nm av. secondary diam. and a benzotriazole UV-absorbing agent I (R1-3 = H, C1-4 alkyl, C1-4 hydroxy alkyl; X- = anion; n = 0-2; m = 2-6). The recording material shows improved image quality without detracting the light-resistance.

IC ICM B41M005-00

ICS C01B033-12; C09K003-00; B41J002-01; C07D249-20

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **ink jet** recording material water soluble; UV absorbing agent **pigment** particle **ink jet** recording

IT **Ink-jet printing**

(**ink-jet** recording material for water-sol. **ink**)

IT 223463-29-4 223463-33-0 223463-35-2

RL: TEM (Technical or engineered material use); USES (Uses)  
(UV-absorbing agent for **ink-jet** recording material)

IT 7631-86-9, Nipsil HD 2, uses

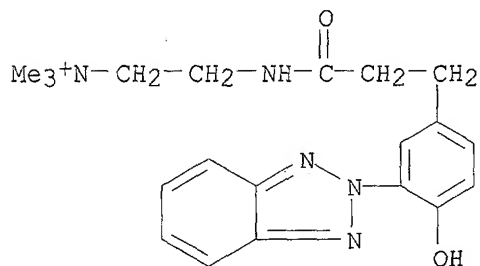
RL: TEM (Technical or engineered material use); USES (Uses)  
(fine **pigment** particle for **ink-jet** recording material)

IT 223463-29-4 223463-33-0 223463-35-2

RL: TEM (Technical or engineered material use); USES (Uses)  
(UV-absorbing agent for **ink-jet** recording material)

RN 223463-29-4 HCA

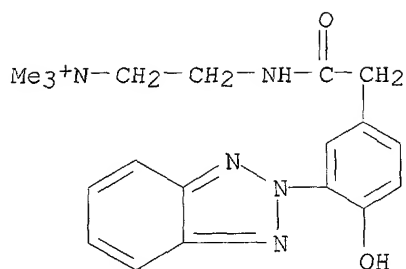
CN Ethanaminium, 2-[[[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

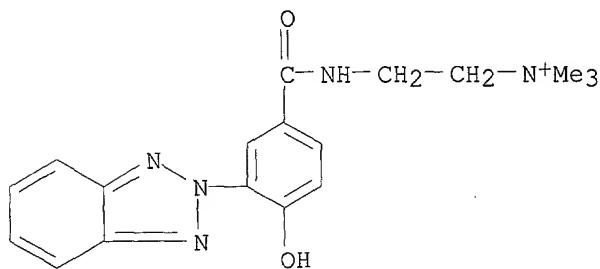
RN 223463-33-0 HCA

CN Ethanaminium, 2-[[[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]acetyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 223463-35-2 HCA

CN Ethanaminium, 2-[[3-(2H-benzotriazol-2-yl)-4-hydroxybenzoyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

L59 ANSWER 8 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 130:304055 HCA

TITLE: Ink-jet printing sheets

INVENTOR(S): Tsuchida, Tetsuo; Meguro, Tatsuya; Inazu, Naoko

PATENT ASSIGNEE(S): Oji Paper Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

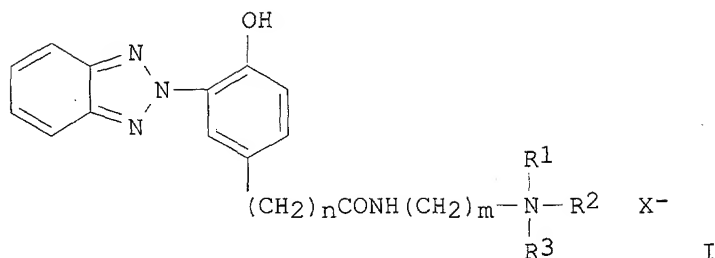
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

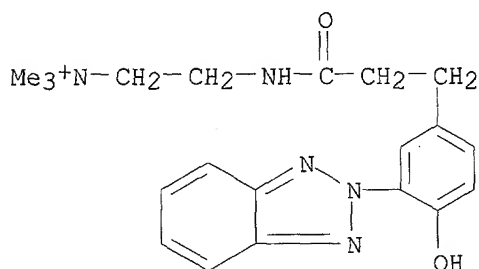
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11099740	A2	19990413	JP 1997-261389	19970926 <--
PRIORITY APPLN. INFO.:			JP 1997-261389	19970926 <--
OTHER SOURCE(S):		MARPAT 130:304055		

GI



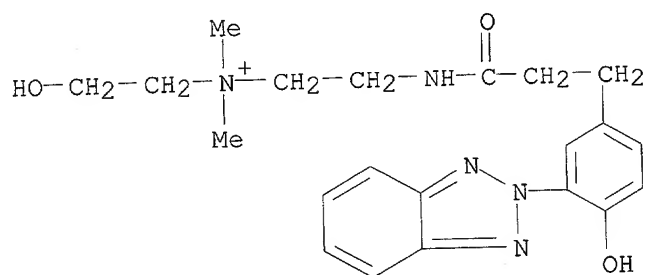


- AB **Ink-jet printing** sheets, esp. suited for aq. **inks**, contain a compd. represented by the formula I (R1-3 = H or C1-4 alkyl or hydroxyalkyl; X- = an org. or inorg. anion; n = 0, 1, or 2; m = an integer of 2-6).
- IC ICM B41M005-00  
ICS B41J002-01
- CC **74-6** (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **ink jet printing** sheet  
benzotriazolyhydroxyphenylpropionylaminoethyltrimethylammonium compd
- IT **Ink-jet printing**  
(sheet materials contg. [(benzotriazolyl)hydroxyphenylpropionylamino]ethyltrimethylammonium compds. for)
- IT 223463-29-4 223463-30-7 223463-32-9  
223463-33-0 223463-35-2  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**ink-jet printing** sheets contg.)
- IT 223463-29-4 223463-32-9 223463-33-0  
223463-35-2  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**ink-jet printing** sheets contg.)
- RN 223463-29-4 HCA
- CN Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

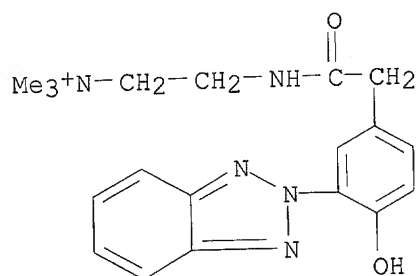


● Cl<sup>-</sup>

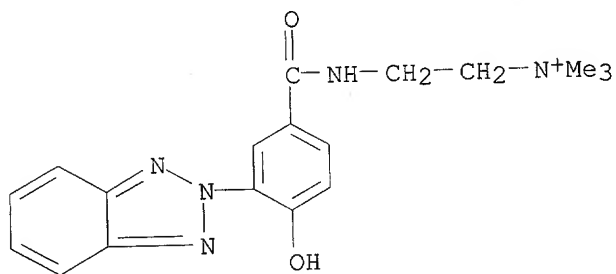
- RN 223463-32-9 HCA
- CN Ethanaminium, N-[2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]ethyl]-2-hydroxy-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 223463-33-0 HCA  
 CN Ethanaminium, 2-[[[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]acetyl]amino]-  
 N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

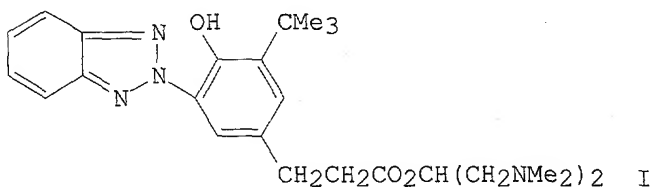
RN 223463-35-2 HCA  
 CN Ethanaminium, 2-[[[3-(2H-benzotriazol-2-yl)-4-hydroxybenzoyl]amino]-N,N,N-  
 trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

L59 ANSWER 9 OF 12 HCA COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 114:209376 HCA

TITLE: Water-soluble materials for protection against light  
 INVENTOR(S): Vieira, Eric; Laver, Hugh Stephen  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
 SOURCE: Eur. Pat. Appl., 49 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 374751	A2	19900627	EP 1989-123224	19891215 <--
EP 374751	A3	19920408		
R: BE, DE, ES, FR, GB, IT, NL				
US 5096781	A	19920317	US 1989-450114	19891213 <--
CA 2005651	AA	19900619	CA 1989-2005651	19891215 <--
BR 8906545	A	19900904	BR 1989-6545	19891218 <--
CN 1043728	A	19900711	CN 1989-109390	19891219 <--
JP 02222457	A2	19900905	JP 1989-329432	19891219 <--
PRIORITY APPLN. INFO.:			CH 1988-4674	19881219 <--
OTHER SOURCE(S):	MARPAT 114:209376			
GI				



AB A recording material is claimed contg. .gtoreq.1 stabilizer from R(Z)<sub>n</sub> [n = 1-4; R = UV-absorber group; Z = ammonium-contg. alkylene or arylene or oxyalkylene group addnl. contg. an acidic or amide or keto group. An **ink** contg. the above compd. for **ink-jet printing** is also described. The compd. is H<sub>2</sub>O-sol. and the **ink** has improved stability. Thus, I was prepd. and used in an **ink**.

IC ICM B41M007-02

ICS B41M001-36; G03C001-815

CC 42-12 (Coatings, Inks, and Related Products)

Section cross-reference(s): 74

ST **ink jet printing** UV stabilizer

IT **Inks**

(UV stabilizer for)

IT **Printing**, nonimpact

(**ink-jet**, UV stabilizer for)

IT 133121-91-2P 133121-98-9P 133121-99-0P 133122-00-6P  
 133823-14-0P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and quaternization of, UV absorber from)

IT 133121-89-8P 133121-90-1P 133121-93-4P

133121-94-5P 133121-95-6P 133121-97-8P

133122-01-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

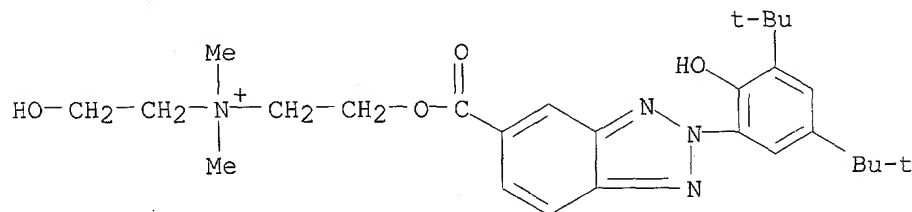
(prepn. and use of, as UV absorber in **ink**)

IT 133121-99-0P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and quaternization of, UV absorber from)

RN 133121-99-0 HCA

CN Ethanaminium, N-[2-[[[2-[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]-2H-benzotriazol-5-yl]carbonyl]oxy]ethyl]-2-hydroxy-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

IT 133121-89-8P 133121-90-1P 133121-93-4P

133121-94-5P 133121-95-6P 133122-01-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and use of, as UV absorber in ink)

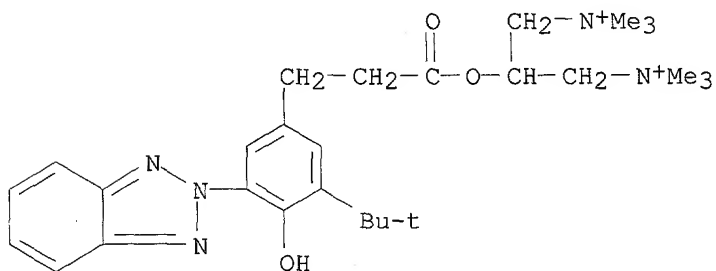
RN 133121-89-8 HCA

CN 1,3-Propanediaminium, 2-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-N,N,N,N',N',N'-hexamethyl-, bis(methyl sulfate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 133121-88-7

CMF C28 H43 N5 O3



CM 2

CRN 21228-90-0

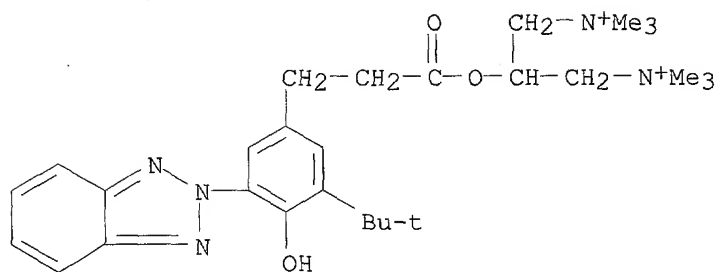
CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 133121-90-1 HCA

CN 1,3-Propanediaminium, 2-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-N,N,N,N',N',N'-hexamethyl-, dichloride

(9CI) (CA INDEX NAME)

● 2 Cl<sup>-</sup>

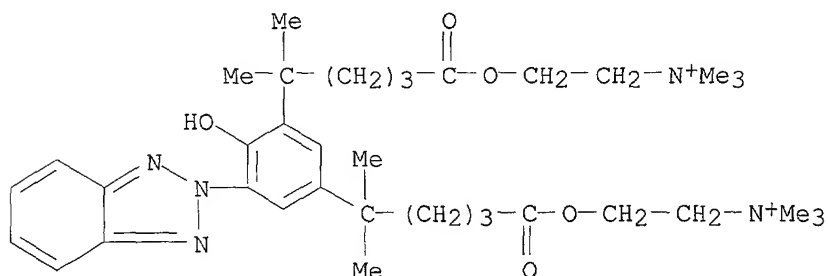
RN 133121-93-4 HCA

CN Ethanaminium, 2,2'-[[5-(2H-benzotriazol-2-yl)-4-hydroxy-1,3-phenylene]bis[(5,5-dimethyl-1-oxo-5,1-pentanedioyl)oxy]]bis[N,N,N-trimethyl-, bis(methyl sulfate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 133121-92-3

CMF C36 H57 N5 O5



CM 2

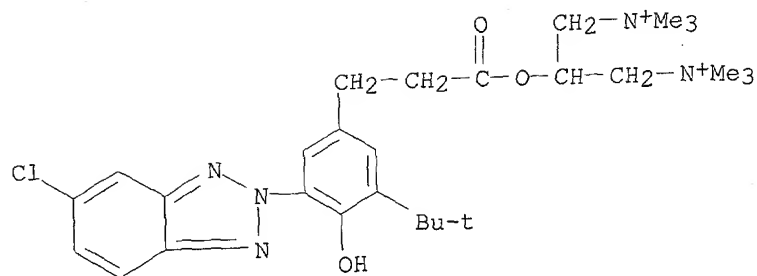
CRN 21228-90-0

CMF C H3 O4 S

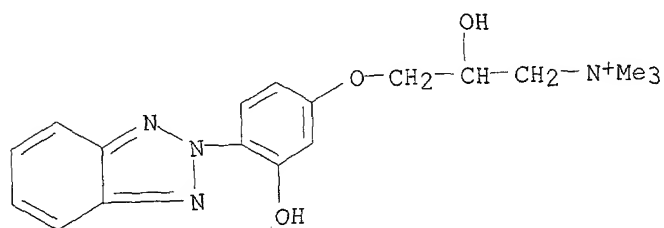
Me-O-SO<sub>3</sub><sup>-</sup>

RN 133121-94-5 HCA

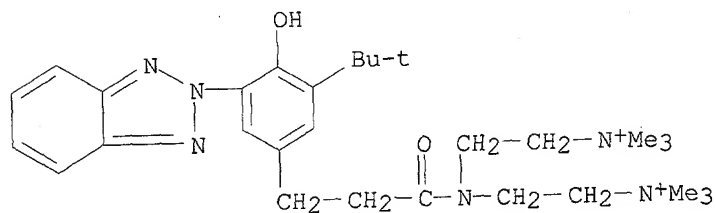
CN 1,3-Propanediaminium, 2-[3-[3-(5-chloro-2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-N,N,N,N',N',N'-hexamethyl-, diiodide (9CI) (CA INDEX NAME)

● 2 I<sup>-</sup>

RN 133121-95-6 HCA  
 CN 1-Propanaminium, 3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 133122-01-7 HCA  
 CN Ethanaminium, 2,2'-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]imino]bis[N,N,N-trimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl<sup>-</sup>

L59 ANSWER 10 OF 12 HCA COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 113:97630 HCA  
 TITLE: Cationic compounds, their preparation and their use in

the photochemical stabilization of basic  
**dyeable** polyamide, polyacrylonitrile, and  
 polyester fibers  
 INVENTOR(S): Hohener, Alfred; Burdeska, Kurt; Reinert, Gerhard  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
 SOURCE: Eur. Pat. Appl., 31 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 357545	A2	19900307	EP 1989-810525	19890712 <--
EP 357545	A3	19900321		
R: CH, DE, ES, FR, GB, IT, LI				
US 5037979	A	19910806	US 1989-381438	19890718 <--
JP 02088546	A2	19900328	JP 1989-187597	19890721 <--
JP 05004388	B4	19930119		
PRIORITY APPLN. INFO.:			CH 1988-2794	19880721 <--
OTHER SOURCE(S):			MARPAT 113:97630	
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds [I; R = H, OH; R1 = Q1, Q2, Q3; R2 = H, halo, alkyl, alkoxy, alkoxycarbonyl, CO2H; R3 = H, halo; R4, R5 = H, alkyl, alkoxy, halo; R6 = H, OH, CO2H; R7 = H, OH, alkoxy; n = 1,2; X = C2-8 alkylene; Y1,Y2 = (substituted) alkyl; Y1Y2N = 5-7 membered heterocyclyl; Y3 = (substituted) alkyl, alkenyl; Y1Y2Y3N = pyridyl, picolinyl; A = **colorless** anion] were prepd. Thus, 2-(2',4'-dihydroxyphenyl)-4,6-diphenyl-1,3,5-triazine in cyclohexanol at 60.degree. was treated with Et2NCH2CH2Cl-HCl and then NaOMe. The mixt. was kept 2 h at 120.degree. to give 4'-aminoethyl deriv. which in PhCl at 90.degree. was treated with Me2SO4 to give a quaternary ammonium salt II. II effectively stabilized nylon 6-6 exposed to xenon or fakra illumination for prolonged periods.

IC ICM C07D249-20  
 ICS C07D251-24; C07D401-12; C08K005-19; C08K005-3492; C08K005-3475

CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 40, 41

ST light stabilizer cationic triazine triazole; arylalkylamine quaternized fiber light stabilizer; polyamide base **dyed** stabilizer triazine; polyacrylonitrile base **dyed** stabilizer triazine; polyester base **dyed** stabilizer triazine

IT **Dyes**  
 (light stabilizers for, quaternized arylalkylamines as)

IT 128643-99-2P 128644-01-9P **128644-03-1P** 128644-05-3P  
 128644-06-4P 128669-11-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of, as light stabilizer for base-**dyed** synthetic fibers)

IT **128644-03-1P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of, as light stabilizer for base-**dyed** synthetic fibers)

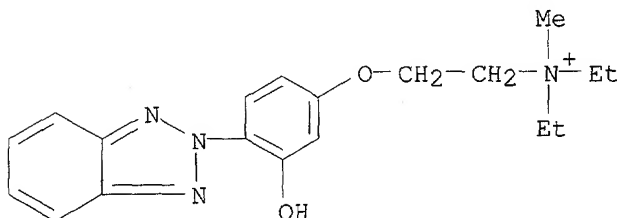
RN 128644-03-1 HCA

CN Ethanaminium, 2-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-N,N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 128644-02-0

CMF C19 H25 N4 O2



CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

L59 ANSWER 11 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 106:51783 HCA

TITLE: Water-soluble UV absorbers

INVENTOR(S): Sugiura, Motoyasu; Araga, Toshimi; Hiruta, Osamu; Suzuki, Shoichi

PATENT ASSIGNEE(S): Toyota Central Research and Development Laboratories, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

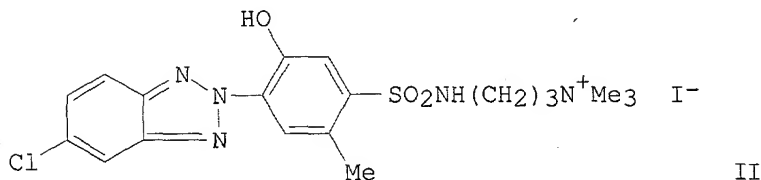
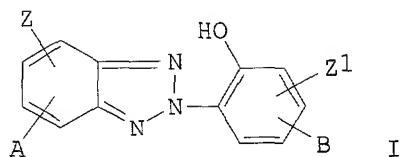
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61192781	A2	19860827	JP 1985-33421	19850221 <--
PRIORITY APPLN. INFO.: GI			JP 1985-33421	19850221 <--





AB Benzotriazole-based water-sol. UV absorbers I (A, B = H, halogen, alkyl, alkoxy; Z and/or Z1 = quaternary ammonium group) were prep'd. for use in coatings. Thus, 0.1 mol 2-(2-hydroxy-5-methylphenyl)-5-chlorobenzotriazole was treated with 0.2 mol chlorosulfonic acid in dichlorobenzene at 170-180.degree. for 6 h to obtain yellow crystals, which were heated with 0.1 mol 3-(dimethylamino)propanamine at 150.degree. for 5 h and methylated with 0.1 mol MeI at 120.degree. for 10 h to give II showing excellent performance as light stabilizer in solvent-based baked amino-alkyd coating **pigmented** white with TiO2.

IC ICM C09K003-00

ICS A61K007-42; D06P001-642

ICA C09D005-00; C09D005-44

CC 42-5 (Coatings, Inks, and Related Products)

IT 106463-50-7P 106463-51-8P 106463-52-9P

RL: PREP (Preparation)

(manuf. of, for UV absorbers for coatings)

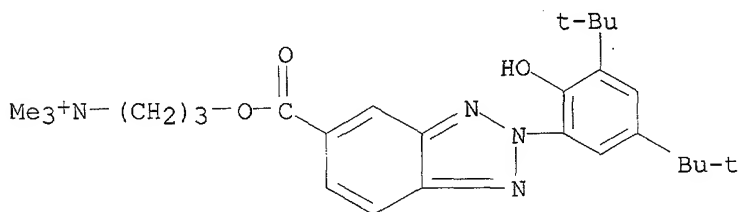
IT 106463-50-7P 106463-51-8P 106463-52-9P

RL: PREP (Preparation)

(manuf. of, for UV absorbers for coatings)

RN 106463-50-7 HCA

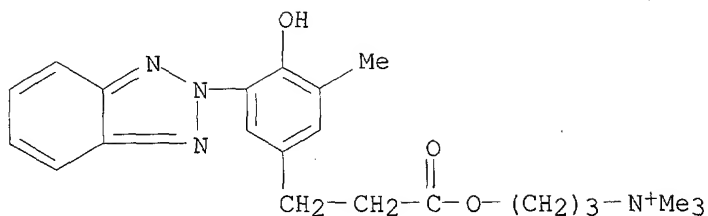
CN 1-Propanaminium, 3-[[[2-[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]-2H-benzotriazol-5-yl]carbonyl]oxy]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)



● I-

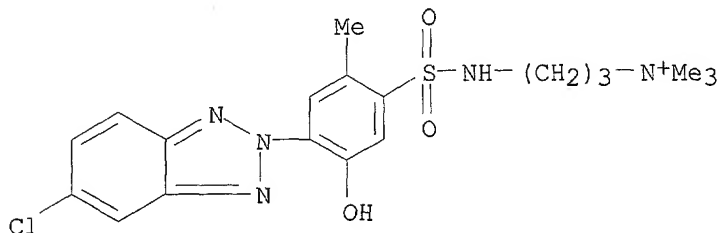
RN 106463-51-8 HCA

CN 1-Propanaminium, 3-[3-[3-(2H-benzotriazol-2-yl)-4-hydroxy-5-methylphenyl]-1-oxopropoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 106463-52-9 HCA  
 CN 1-Propanaminium, 3-[[[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenyl]sulfonyl]amino]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)



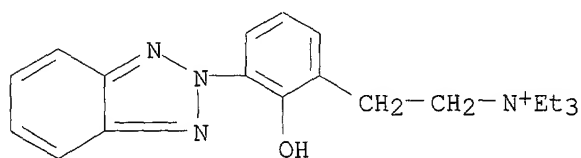
● I<sup>-</sup>

L59 ANSWER 12 OF 12 HCA COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 73:78488 HCA  
 TITLE: Modified poly(ethylene terephthalate)  
 INVENTOR(S): Tanaka, Tatsuo; Hanada, Tsuneo; Nogi, Ritsuo; Yasuhara, Yutaka  
 PATENT ASSIGNEE(S): Toray Industries, Inc.  
 SOURCE: Jpn. Tokkyo Koho, 5 pp.  
 CODEN: JAXXAD  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 45014151	B4	19700520	JP	19670816 <--

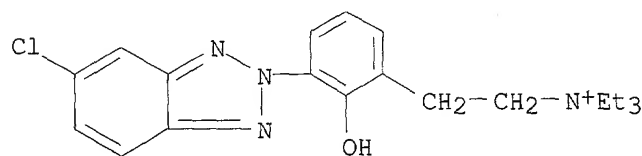
AB Light stability (discoloration resistance) of **dyed** and modified polyester fibers such as **dyed** poly(ethylene terephthalate) contg. m-HOC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na is improved by incorporating a quaternary ammonium salt 2,3,4,5-R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>C<sub>6</sub>H<sub>X</sub>n(CH<sub>2</sub>)<sub>2</sub>N<sup>+</sup>R<sub>3</sub>Cl<sup>-</sup> (I) in the **dye** bath. I used were [R,R<sub>1</sub>,R<sub>2</sub>,R<sub>3</sub>,R<sub>4</sub>, n, and X given]: Me, H, OH, Bz, H, 1, O; Me, OH, H, H, H, 1, CO; Me, H, Me<sub>3</sub>C, OH, tert-Bu, O, -; Et, OH, 2-benzotriazolyl, H, H, O, -; Me, H, H, 2,5-HO(Cl)C<sub>6</sub>H<sub>3</sub>CO, H, 1, O; Et, HO, 5-chloro-2-benzotriazolyl, H, H, O, -; Me, H, OH, Ac, H, 1, O; Me, H, OH,

tert-Bu, H, 1, O].  
NCL 48B01  
CC 39 (Textiles)  
ST light stability dyed polyester fibers; polyester fibers  
dyed light stability; quaternary salts light stabilizers  
IT 27147-32-6 27147-34-8 **27147-35-9** 27147-36-0  
27147-37-1 27147-38-2 27147-39-3 29490-98-0  
RL: USES (Uses)  
(in polyester fibers, for prevention of discoloration)  
IT **27147-35-9** **27147-37-1**  
RL: USES (Uses)  
(in polyester fibers, for prevention of discoloration)  
RN 27147-35-9 HCA  
CN Ammonium, [3-(2H-benzotriazol-2-yl)-2-hydroxyphenethyl]triethyl-, chloride  
(8CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 27147-37-1 HCA  
CN Ammonium, [3-(5-chloro-2H-benzotriazol-2-yl)-2-hydroxyphenethyl]triethyl-,  
chloride (8CI) (CA INDEX NAME)



● Cl<sup>-</sup>

\*\*\*\*\*

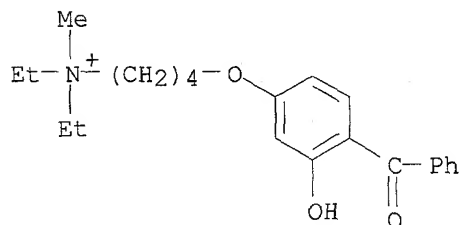
The utility of these records should be the closest to your art.

\*\*\*\*\*

=> d L56 1-6 cbib abs hitind hitstr

L56 ANSWER 1 OF 6 HCA COPYRIGHT 2003 ACS on STN  
122:146904 Attempts to photostabilize paper made from high-yield pulp by  
application of UV screens containing groups to aid their compatibility  
with cellulose and lignin. Castellan, Alain; Noutary, Carole; Stephen  
Davidson, R. (Universite Bordeaux 1, Laboratoire de Photophysique et  
Photochimie Moleculaire, CNRS URA 348, Talence, F-33405, Fr.). Journal of  
Photochemistry and Photobiology, A: Chemistry, 84(3), 311-16 (English)  
1994. CODEN: JPPCEJ. ISSN: 1010-6030. Publisher: Elsevier.

- AB 2,4-Dihydroxybenzophenone (DHB) is known to be a reasonably efficient UV screen for preventing the **color** reversion of papers made from high-yield pulps. Attempts have been made to improve the performance of this material by increasing its compatibility with cellulose and by the introduction of cationic groups which will help it to locate in lignin-rich areas. The latter has proved successful and the results show that, on a molar basis for the 2,4-dihydroxybenzophenone nucleus, the efficiency is increased by the introduction of ammonium and thiouronium groups. An interesting finding was that a 2,4-dialkyloxyderivative of benzophenone showed similar protective power to that obsd. for DHB.
- CC **74-1** (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
Section cross-reference(s): 43
- IT 131-56-6, 2,4-Dihydroxybenzophenone 3739-72-8 21121-97-1 54518-20-6  
161227-03-8 161227-04-9 161227-05-0 161227-06-1 161227-07-2  
161227-08-3 **161227-09-4** 161227-10-7  
RL: MOA (Modifier or additive use); USES (Uses)  
(hydroxybenzophenone derivs. as UV screens to photostabilize paper made from high-yield pulp).
- IT **161227-09-4**  
RL: MOA (Modifier or additive use); USES (Uses)  
(hydroxybenzophenone derivs. as UV screens to photostabilize paper made from high-yield pulp)
- RN 161227-09-4 HCA
- CN 1-Butanaminium, 4-(4-benzoyl-3-hydroxyphenoxy)-N,N-diethyl-N-methyl- (9CI)  
(CA INDEX NAME)



L56 ANSWER 2 OF 6 HCA COPYRIGHT 2003 ACS on STN  
113:97630 Cationic compounds, their preparation and their use in the photochemical stabilization of basic **dyeable** polyamide, polyacrylonitrile, and polyester fibers. Hohener, Alfred; Burdeska, Kurt; Reinert, Gerhard (Ciba-Geigy A.-G., Switz.). Eur. Pat. Appl. EP 357545 A2 19900307, 31 pp. DESIGNATED STATES: R: CH, DE, ES, FR, GB, IT, LI. (German). CODEN: EPXXDW. APPLICATION: EP 1989-810525 19890712. PRIORITY: CH 1988-2794 19880721.

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds [I; R = H, OH; R1 = Q1, Q2, Q3; R2 = H, halo, alkyl, alkoxy, alkoxy carbonyl, CO2H; R3 = H, halo; R4, R5 = H, alkyl, alkoxy, halo; R6 = H, OH, CO2H; R7 = H, OH, alkoxy; n = 1,2; X = C2-8 alkylene; Y1,Y2 = (substituted) alkyl; Y1Y2N = 5-7 membered heterocyclyl; Y3 = (substituted) alkyl, alkenyl; Y1Y2Y3N = pyridyl, picolinyl; A = **colorless** anion] were prepd. Thus, 2-(2',4'-dihydroxyphenyl)-4,6-diphenyl-1,3,5-triazine in cyclohexanol at 60.degree. was treated with

Et<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>Cl-HCl and then NaOMe. The mixt. was kept 2 h at 120.degree. to give 4'-aminoethyl deriv. which in PhCl at 90.degree. was treated with Me<sub>2</sub>SO<sub>4</sub> to give a quaternary ammonium salt II. II effectively stabilized nylon 6-6 exposed to xenon or fakra illumination for prolonged periods.

IC ICM C07D249-20  
ICS C07D251-24; C07D401-12; C08K005-19; C08K005-3492; C08K005-3475

CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 40, 41

ST light stabilizer cationic triazine triazole; arylalkylamine quaternized fiber light stabilizer; polyamide base **dyed** stabilizer triazine; polyacrylonitrile base **dyed** stabilizer triazine; polyester base **dyed** stabilizer triazine

IT **Dyes**  
(light stabilizers for, quaternized arylalkylamines as)

IT 128643-99-2P **128644-01-9P** 128644-03-1P 128644-05-3P  
128644-06-4P 128669-11-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as light stabilizer for base-**dyed** synthetic fibers)

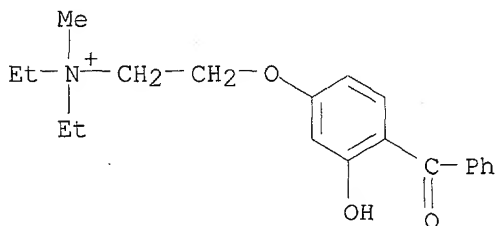
IT **128644-01-9P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as light stabilizer for base-**dyed** synthetic fibers)

RN 128644-01-9 HCA

CN Ethanaminium, 2-(4-benzoyl-3-hydroxyphenoxy)-N,N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 128644-00-8  
CMF C20 H26 N O3



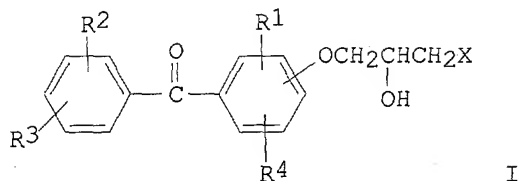
CM 2

CRN 21228-90-0  
CMF C H3 O4 S

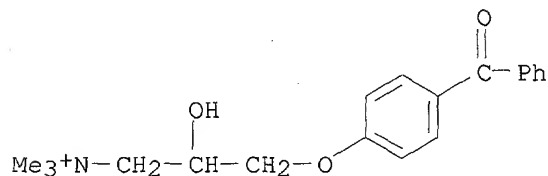
Me-O-SO<sub>3</sub><sup>-</sup>

L56 ANSWER 3 OF 6 HCA COPYRIGHT 2003 ACS on STN  
111:39004 Benzophenone derivatives useful as aqueous photoinitiators for UV-cured lacquer films, their photocurable compositions, and a process for their preparation. Green, Peter Nicholl; Green, William Arthur (Ward, Blenkinsop and Co. Ltd., UK). Eur. Pat. Appl. EP 279475 A2  
**19880824**, 9 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1988-200105 19880208. PRIORITY: GB 1987-3606 19870217.

GI

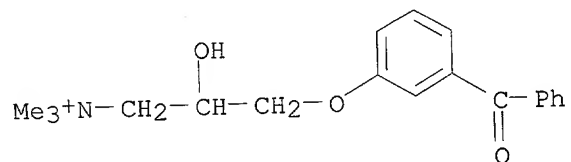


- AB Title derivs. I [X = SO<sub>3</sub>H or alkali metal salt, N<sup>+</sup>R<sub>5</sub>R<sub>6</sub>R<sub>7</sub> A<sup>-</sup>; R<sub>1</sub>-R<sub>4</sub> = H, halo, OH, Cl-6 alkyl, alkoxy, or alkylthio, OCH<sub>2</sub>CH(OH)CH<sub>2</sub>X; R<sub>5</sub> = alkyl, PhCH<sub>2</sub>; R<sub>6</sub>, R<sub>7</sub> = alkyl; A<sup>-</sup> = anion] are prepd. for use as water-sol. initiators for UV-cured lacquer films. Etherification of 4-hydroxybenzophenone with glycidyltrimethylammonium chloride in refluxing Me<sub>2</sub>CHOH contg. NaOEt (to pH 9) gave, after 2 crystns., 75.4% I (R<sub>1</sub>-R<sub>4</sub> = H; X = Me<sub>3</sub>N<sup>+</sup> Cl<sup>-</sup>; linkage at 4-position) (II). In a photocurable test compn. contg. 0.00043 M initiator in RCP 2702 (Lankro prepolymer) 3.1, H<sub>2</sub>O 1.75, and MeN(CH<sub>2</sub>CH<sub>2</sub>OH)<sub>2</sub> 0.15 g, II performed as well as 4-benzoyl-N,N,N-trimethylbenzenemethanaminium chloride in terms of **color**, glass, and curing speed, but lacked the amine-like odor of the latter compd.
- IC ICM C07C097-10  
ICS C07C143-11; C07C149-36; G03C001-68
- CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 42, 74
- IT 118550-13-3, RCP 2702  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(polymn. of, using benzophenone photoinitiators)
- IT 113184-23-9P 115010-26-9P 118604-98-1P  
118604-99-2P 118605-00-8P 118605-01-9P  
118605-02-0P 118605-03-1P 118605-04-2P  
118605-05-3P 118643-48-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as photoinitiator for UV-cured lacquers)
- IT 113184-23-9P 118604-98-1P 118604-99-2P  
118605-00-8P 118605-01-9P 118605-02-0P  
118605-03-1P 118605-04-2P 118605-05-3P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as photoinitiator for UV-cured lacquers)
- RN 113184-23-9 HCA
- CN 1-Propanaminium, 3-(4-benzoylphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride  
(9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

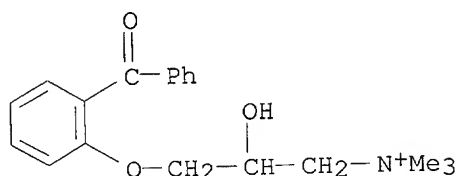
RN 118604-98-1 HCA

CN 1-Propanaminium, 3-(3-benzoylphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride  
(9CI) (CA INDEX NAME)



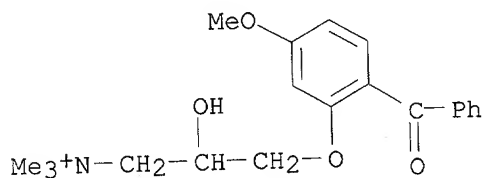
● Cl<sup>-</sup>

RN 118604-99-2 HCA  
CN 1-Propanaminium, 3-(2-benzoylphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride  
(9CI) (CA INDEX NAME)



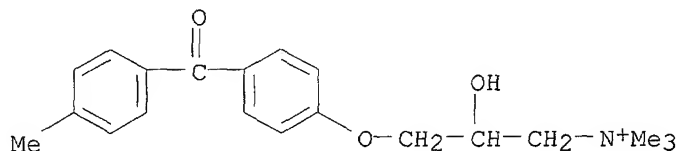
● Cl<sup>-</sup>

RN 118605-00-8 HCA  
CN 1-Propanaminium, 3-(2-benzoyl-5-methoxyphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

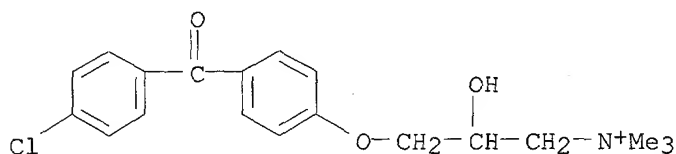
RN 118605-01-9 HCA  
CN 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[4-(4-methylbenzoyl)phenoxy]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 118605-02-0 HCA

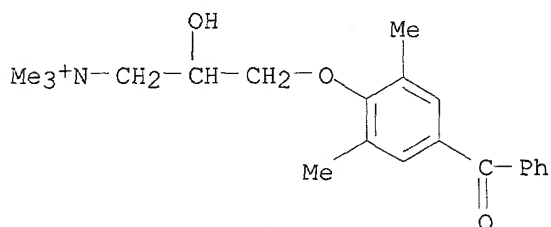
CN 1-Propanaminium, 3-[4-(4-chlorobenzoyl)phenoxy]-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 118605-03-1 HCA

CN 1-Propanaminium, 3-(4-benzoyl-2,6-dimethylphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

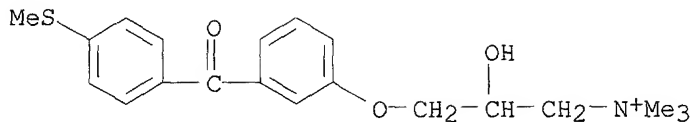


● Cl<sup>-</sup>

RN 118605-04-2 HCA

CN 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[3-[4-(methylthio)benzoyl]phenoxy]-, chloride (9CI) (CA INDEX NAME)

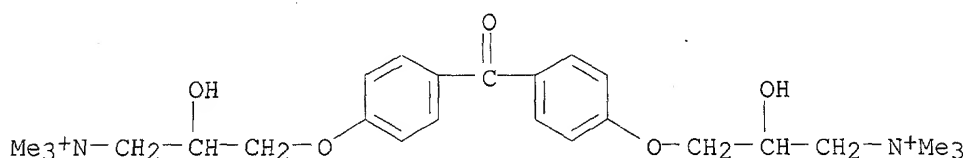




● Cl<sup>-</sup>

RN 118605-05-3 HCA

CN 1-Propanaminium, 3,3'-[carbonylbis(4,1-phenyleneoxy)]bis[2-hydroxy-N,N,N-trimethyl-, dichloride (9CI) (CA INDEX NAME)

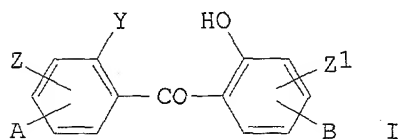


●2 Cl<sup>-</sup>

L56 ANSWER 4 OF 6 HCA COPYRIGHT 2003 ACS on STN

106:51808 Water-soluble UV absorbers for coatings. Sugiura, Motoyasu; Araga, Toshimi; Hiruta, Osamu; Suzuki, Shoichi (Toyota Central Research and Development Laboratories, Inc., Japan). Jpn. Kokai Tokkyo Koho JP 61192778 A2 19860827 Showa, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1985-33418 19850221.

GI



AB The title compds. were prepd. having the general formula I (A, B = H, halogen, alkyl, alkoxy; Y = H, OH; Z and/or Z1 = quaternary ammonium group). Thus, 0.1 mol 2,4-dihydroxybenzophenone was treated with 0.1 mol aminoacetyl chloride in the presence of pyridine and NaOH at 100.degree. for 6 h to give the corresponding quaternary ammonium salt which showed good performance as a light stabilizer in a solvent-based baked amino alkyd coating pigmented with TiO<sub>2</sub>.

IC ICM C09K003-00

ICS A61K007-42; C08K005-17; D06P001-66

CC 42-8 (Coatings, Inks, and Related Products)

IT 106327-84-8 106428-26-6 106428-27-7

RL: USES (Uses)

(UV absorbers, for coatings)

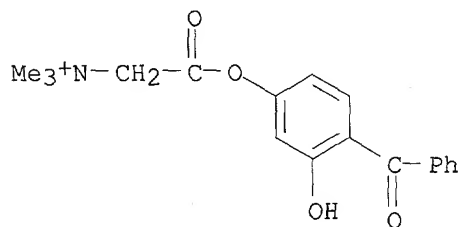
IT 106327-84-8 106428-26-6 106428-27-7

RL: USES (Uses)

(UV absorbers, for coatings)

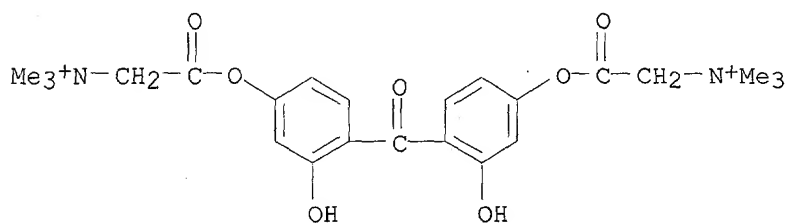
RN 106327-84-8 HCA

CN Ethanaminium, 2-(4-benzoyl-3-hydroxyphenoxy)-N,N,N-trimethyl-2-oxo-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

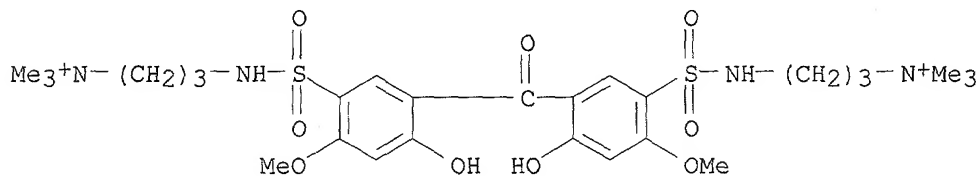
RN 106428-26-6 HCA

CN Ethanaminium, 2,2'-[carbonylbis[(3-hydroxy-4,1-phenylene)oxy]]bis[N,N,N-trimethyl-2-oxo-, diiodide (9CI) (CA INDEX NAME)

●2 I<sup>-</sup>

RN 106428-27-7 HCA

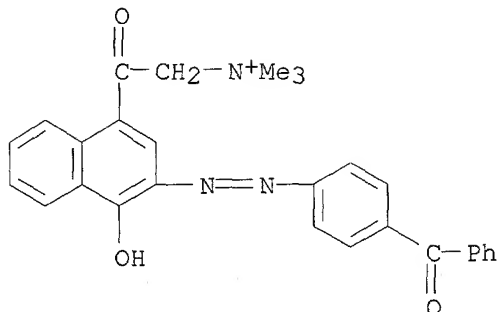
CN 1-Propanaminium, 3,3'-[carbonylbis[(4-hydroxy-6-methoxy-3,1-phenylene)sulfonylimino]]bis[N,N,N-trimethyl-, dibromide (9CI) (CA INDEX NAME)

●2 Br<sup>-</sup>

L56 ANSWER 5 OF 6 HCA COPYRIGHT 2003 ACS on STN

74:4636 (4-Hydroxy-1-naphthoylmethyl)trimethylammonium azo dyes.

- Blackwell, John (du Pont de Nemours, E. I., and Co.). Ger. Offen. DE 2003540 19700827, 29 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1970-2003540 19700127.
- GI For diagram(s), see printed CA Issue.
- AB The title compds. (I), orange to violet **dyes** for acrylic fibers, were prepd. by coupling 1,4-HOC10H6CO-CH2N+Me3Cl- (II) with diazotized RNH2. Thus, 1-Cl10H7OH was treated with ClCH2CN at 25-35.degree. in PhCl contg. AlCl3 and HCl gas to give 90% 1,4-HOC10H6COCH2Cl which was quaternized with Me3N in MeOH to give 99% II. Diazotized PhNH2 was coupled with II to give 90% I (R = Ph), bright orange on acrylic and polyamide fibers. An addnl. 52 I were prepd. similarly.
- IC C09B
- CC 40 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)
- ST quaternary ammonium azo **dyes**; azo **dyes** quaternary ammonium; cationic azo **dyes**; naphthoylmethyl azo **dyes**; acrylic fibers **dyes**; polyamide fibers **dyes**
- IT **Dyes**, azo  
([hydroxy(phenylazo)naphthoyl]methyl]trimethylammonium derivs., synthetic fibers)
- IT Fiber, acrylic, uses and miscellaneous  
Nylon, uses and miscellaneous  
RL: USES (Uses)  
(**dyes** for, [hydroxy(phenylazo)naphthoyl]methyl]trimethylammonium derivs. as)
- IT 27617-95-4P 27617-96-5P 27618-37-7P 27618-38-8P 27618-39-9P  
27744-78-1P 30185-08-1P 30185-12-7P 30185-14-9P 30185-15-0P  
30185-16-1P 30185-17-2P 30185-18-3P 30185-19-4P 30185-20-7P  
30185-21-8P 30185-22-9P 30185-23-0P 30185-24-1P 30185-25-2P  
30185-26-3P 30185-27-4P 30185-28-5P 30185-29-6P 30185-30-9P  
30185-31-0P 30185-32-1P 30185-33-2P 30185-34-3P 30185-35-4P  
30185-36-5P 30185-37-6P 30185-38-7P 30185-39-8P 30190-93-3P  
30190-94-4P 30191-05-0P 30191-06-1P 30191-07-2P 30191-08-3P  
30191-09-4P 30191-10-7P 30191-11-8P 30191-12-9P  
30191-13-0P 30191-14-1P 30191-15-2P 30292-06-9P 30292-07-0P  
30292-08-1P 30292-09-2P 30296-21-0P 30296-22-1P 32483-47-9P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(prepn. of)
- IT 30191-10-7P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(prepn. of)
- RN 30191-10-7 HCA
- CN Ammonium, [[3-[(p-benzoylphenyl)azo]-4-hydroxy-1-naphthoyl]methyl]trimethyl-, chloride (8CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L56 ANSWER 6 OF 6 HCA COPYRIGHT 2003 ACS on STN

73:78488 Modified poly(ethylene terephthalate). Tanaka, Tatsuo; Hanada, Tsuneo; Nogi, Ritsuo; Yasuhara, Yutaka (Toray Industries, Inc.). Jpn. Tokkyo Koho JP 45014151 B4 19700520 Showa, 5 pp. (Japanese). CODEN: JAXXAD. APPLICATION: JP 19670816.

AB Light stability (discoloration resistance) of **dyed** and modified polyester fibers such as **dyed** poly(ethylene terephthalate) contg. m-HOC6H4SO3Na is improved by incorporating a quaternary ammonium salt 2,3,4,5-R1R2R3R4C6HXn(CH2)2N+R3Cl- (I) in the **dye** bath. I used were [R,R1,R2,R3,R4, n, and X given]: Me, H, OH, Bz, H, 1, O; Me, OH, H, H, H, 1, CO; Me, H, Me3C, OH, tert-Bu, O, -; Et, OH, 2-benzotriazolyl, H, H, O, -; Me, H, H, 2,5-HO(Cl)C6H3CO, H, 1, O; Et, HO, 5-chloro-2-benzotriazolyl, H, H, O, -; Me, H, OH, Ac, H, 1, O; Me, H, OH, tert-Bu, H, 1, O].

NCL 48B01

CC 39 (Textiles)

ST light stability **dyed** polyester fibers; polyester fibers **dyed** light stability; quaternary salts light stabilizers

IT 27147-32-6 27147-34-8 27147-35-9 27147-36-0  
27147-37-1 27147-38-2 27147-39-3 29490-98-0

RL: USES (Uses)

(in polyester fibers, for prevention of discoloration)

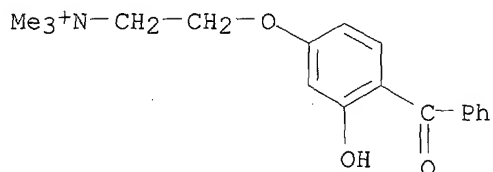
IT 27147-32-6 27147-36-0

RL: USES (Uses)

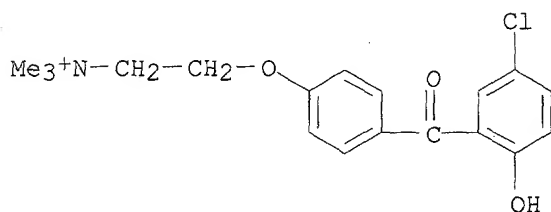
(in polyester fibers, for prevention of discoloration)

RN 27147-32-6 HCA

CN Ammonium, [2-(4-benzoyl-3-hydroxyphenoxy)ethyl]trimethyl-, chloride (8CI)  
(CA INDEX NAME)

● Cl<sup>-</sup>

RN 27147-36-0 HCA

CN Ammonium, [2-[p-(chlorosalicyloyl)phenoxy]ethyl]trimethyl-, chloride (8CI)  
(CA INDEX NAME)● Cl<sup>-</sup>

=&gt; d L61 1-5 cbib abs hitstr

L61 ANSWER 1 OF 5 HCA COPYRIGHT 2003 ACS on STN

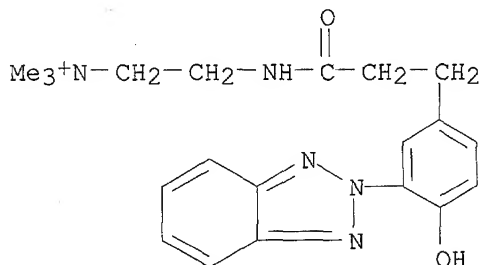
139:118095 Photoprotective and lightfastness-enhancing siloxanes and cosmetic composition. Smith, Thomas W.; McGrane, Kathleen M. (Xerox Corporation, USA). U.S. Pat. Appl. Publ. US 2003133886 A1 20030717, 33 pp. (English). CODEN: USXXCO. APPLICATION: US 2001-1572 20011115.

AB The title triorganosilyl-terminated polysiloxane copolymers have substituents, R1-9, and R10 = alkyl, aryl, arylalkyl, or alkylaryl, R11, R12 = alkylene, arylene, arylalkylene, or alkylarylene, G = cationic moiety, A = anionic moiety, n = integer representing the no. of repeat OSi(R7)(R8) monomer units, a = integer representing the no. of repeat OSi(R10)(R12 -lightfastness moiety) monomer units, and c = integer representing the no. of repeat OSi(R9)(R11-hydrophilic moiety) monomer units. Sunscreen compns. are given.

IT 562084-80-4DP, reaction products with dimethylsilanediol-ethylene oxide-methylsilanediol copolymer Me ether, trimethylsilyl-terminated RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(photoprotective and lightfastness-enhancing siloxanes)

RN 562084-80-4 HCA

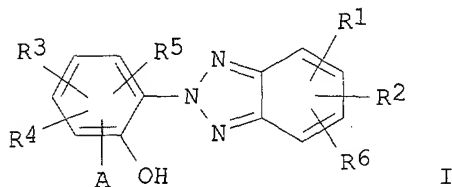
CN Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)



L61 ANSWER 2 OF 5 HCA COPYRIGHT 2003 ACS on STN

135:9815 Use of benzotriazole derivatives as hair sunscreens. Ehliis, Thomas (Ciba Specialty Chemicals Holding Inc., Switz.). PCT Int. Appl. WO 2001036396 A1 20010525, 50 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP10969 20001107. PRIORITY: EP 1999-811053 19991116.

GI



I

AB The use of benzotriazole UV absorbers of formula (I), wherein A is a ketoether, ketoamine, or sulfur-contg. amine; B is tertiary or quaternary amine, or a heterocyclic radical; R1, R2, R3, R4, R5 and R6 are each independently of the others hydrogen, C1-C16 alkyl; C5-C7 cycloalkyl; halogen; R9 is hydrogen, C1-C12 alkyl; or C5-C7 cycloalkyl; R7, R8 and R10 are each independently of the others hydrogen, C1-C12 alkyl C5-C7 cycloalkyl, C1-C12 hydroxyalkyl; R11 is C1-C12 alkyl; or C5-C7 cycloalkyl; R12 and R13 are each independently of the other hydrogen; or C1-C5 alkyl; in the cosmetic treatment of human hair for protection against UV radiation is described. Prepn. of 14 benzotriazole derivs. is described. Stability and antimicrobial action of these derivs. was also shown.

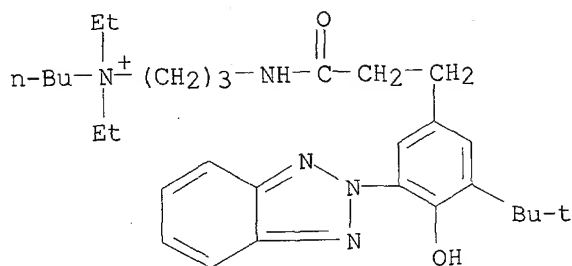
IT 340964-07-0P 340964-08-1P 340964-10-5P  
340964-14-9P 340964-15-0P 340964-18-3P  
340964-19-4P 340964-20-7P 340964-26-3P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(use of benzotriazole derivs. as hair sunscreens)

RN 340964-07-0 HCA

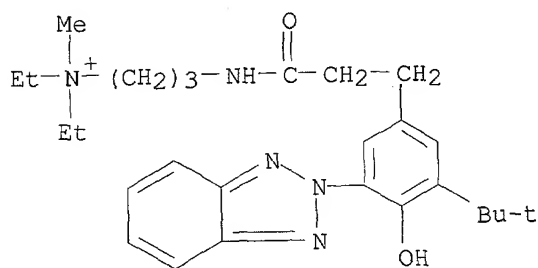
CN 1-Butanaminiun, N-[3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]propyl]-N,N-diethyl-, bromide (9CI) (CA

INDEX NAME)

● Br<sup>-</sup>

RN 340964-08-1 HCA

CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N-diethyl-N-methyl-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

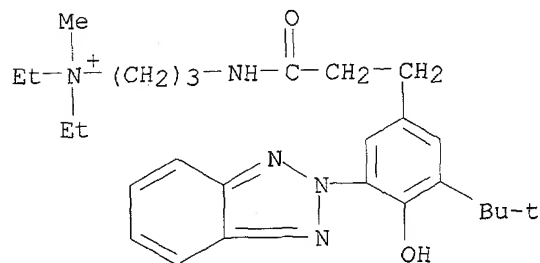
RN 340964-10-5 HCA

CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N-diethyl-N-methyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

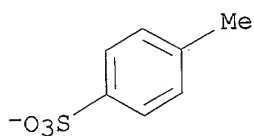
CRN 340964-09-2

CMF C27 H40 N5 O2

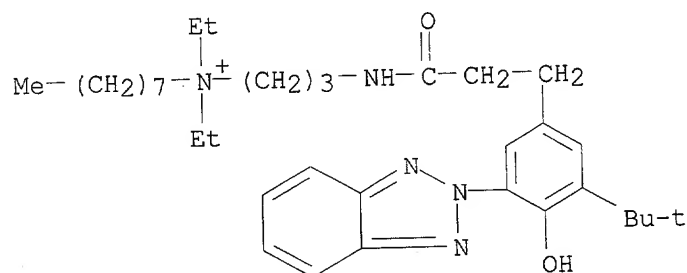


CM 2

CRN 16722-51-3  
CMF C7 H7 O3 S



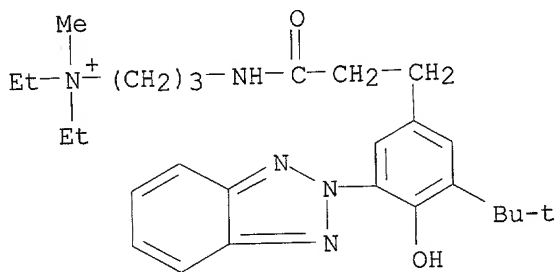
RN 340964-14-9 HCA  
CN 1-Octanaminium, N-[3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]propyl]-N,N-diethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 340964-15-0 HCA  
CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 340964-09-2  
CMF C27 H40 N5 O2



CM 2



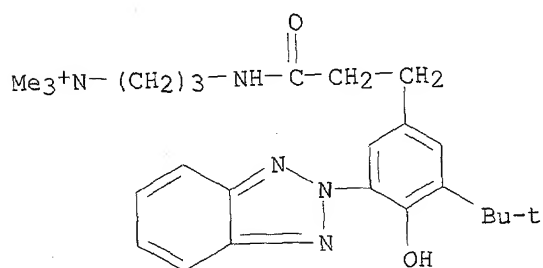
CRN 21228-90-0  
CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 340964-18-3 HCA  
CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 340964-17-2  
CMF C25 H36 N5 O2

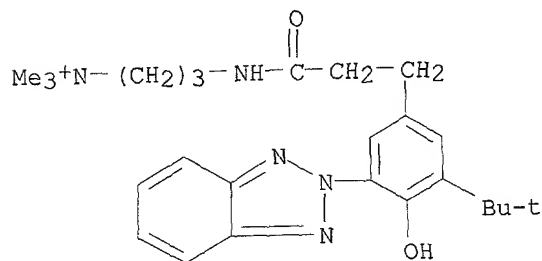


CM 2

CRN 21228-90-0  
CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

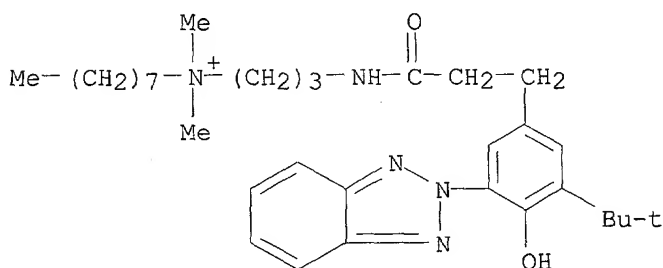
RN 340964-19-4 HCA  
CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)



• I<sup>-</sup>

RN 340964-20-7 HCA  
CN 1-Octanaminium, N-[3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-

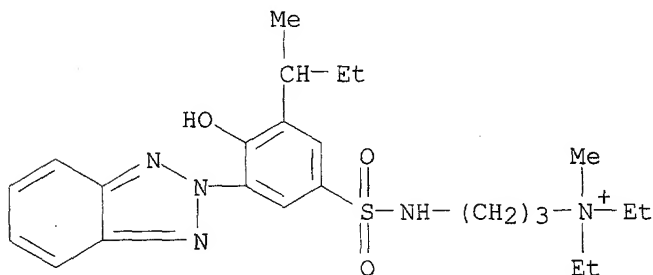
hydroxyphenyl]-1-oxopropyl]amino]propyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 340964-26-3 HCA

CN 1-Propanaminium, 3-[[[3-(2H-benzotriazol-2-yl)-4-hydroxy-5-(1-methylpropyl)phenyl]sulfonyl]amino]-N,N-diethyl-N-methyl-, iodide (9CI) (CA INDEX NAME)



● I<sup>-</sup>

L61 ANSWER 3 OF 5 HCA COPYRIGHT 2003 ACS on STN

130:169756 Inhibition of pulp and paper yellowing using nitroxides and other co-additives. Seltzer, Raymond; Wolf, Jean-Pierre; Heitner, Cyril; Schmidt, John Alois; McGarry, Peter Francis; Cunkle, Glen Thomas; Nelson, Randall Bruce (Ciba Specialty Chemicals Holding Inc., Switz.). PCT Int. Appl. WO 9905108 A1 19990204, 195 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-EP4381 19980714. PRIORITY: US 1997-53489 19970723; US 1997-54968 19970807.

AB Pulps or papers, esp. semichem. or thermomech. pulps or papers, which still contain lignin, have enhanced resistance to yellowing when they contain an effective stabilizing amt. of a hindered amine compd. which preferably is a nitroxide, a hydroxylamine or an ammonium salt thereof. The yellowing resistance is often further enhanced by the presence of one

or more co-additives selected from the group consisting of the UV absorbers, the polymeric inhibitors, the nitrones, the fluorescent whitening agents, metal chelating agents, S-contg. stabilizers, metal salts and diene compds. Combinations of nitroxides, hydroxylamines or their salts, benzotriazole or benzophenone UV absorbers and a metal chelating agent are particularly effective. Selected derivs. of 1-oxyl-2,2,6,6-tetramethylpiperidin-4-ol and selected hydroxylamine salts are novel compds. and are surprisingly effective for this purpose.

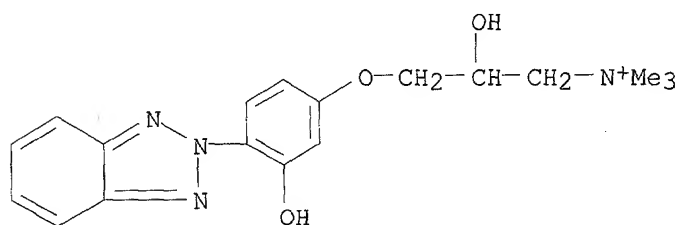
IT 133121-95-6

RL: MOA (Modifier or additive use); USES (Uses)

(inhibition of pulp and paper yellowing using nitroxides and other co-additives)

RN 133121-95-6 HCA

CN 1-Propanaminium, 3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

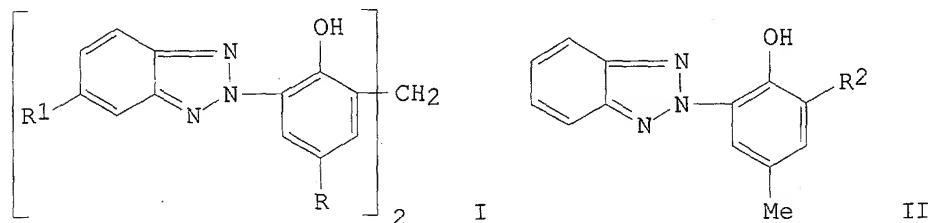


● Cl<sup>-</sup>

L61 ANSWER 4 OF 5 HCA COPYRIGHT 2003 ACS on STN

105:78941 2,2'-Methylenebis(4-hydrocarbyl-6-benzotriazolylphenols). Kubota, Naohiro; Nishimura, Atsushi (Adeka Argus Chemical Co., Ltd., Japan). Eur. Pat. Appl. EP 180993 A2 19860514, 16 pp. DESIGNATED STATES: R: BE, CH, DE, FR, GB, LI, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1985-114203 19851107. PRIORITY: JP 1984-236290 19841109.

GI



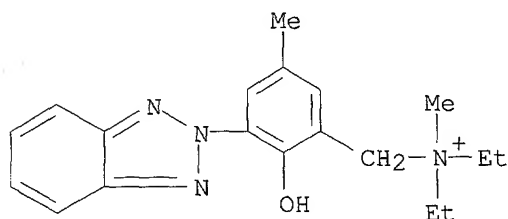
AB The title compds. (I; R = alkyl, aralkyl, cycloalkyl; R1 = H, halo, alkyl, aryl, arylalkyl, alkoxy, aryloxy, arylalkoxy) were prepd. as light stabilizers for plastics (no data). Thus, benzotriazolylphenol II (R2 = H) underwent Mannich reaction with Et2NH and H2CO to give 99% II (R2 = CH2NEt2). This was refluxed in xylene with NaOMe to give 96% I (R = Me, R1 = H) of 91% purity.

IT 103597-52-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(prepn. and coupling of, with phenols)

RN 103597-52-0 HCA

CN Benzenemethanaminium, 3-(2H-benzotriazol-2-yl)-N,N-diethyl-2-hydroxy-N,5-  
dimethyl-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

L61 ANSWER 5 OF 5 HCA COPYRIGHT 2003 ACS on STN

84:35204 Ultraviolet light-absorbing agents. Hotta, Seiji; Kondo, Yutaka  
(Sumitomo Chemical Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 50121178  
19750922 Showa, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION:  
JP 1974-28884 19740312.

GI For diagram(s), see printed CA Issue.

AB Cationic benzotriazoles I [X = H, halogen, or alkoxy; Y = direct linkage,  
O, or NR (R = H, alkyl, cyclohexyl or benzyl); W = alkylene, alkenylene,  
aralkylene, phenylene, or heteroallylene, and contg. O, NR, NRCO, or COO;  
Z = H, halogen, or alkyl; Q<sup>+</sup> = quaternary ammonium group; A<sup>-</sup> = anion; m =  
1 or 2; n = 0 or 1] with uv-absorbing properties were synthesized. I  
prevented the sensitivity of org. compds. in various products such as  
cosmetics, fibers, foods etc. Thus, a cosmetic contained white ceresin  
wax 5, white petrolatum 22, white mineral oil 19.5, anhyd. lanolin 1.5, II  
[57579-95-0] 2, H<sub>2</sub>O 36 and perfume 0.5 part.

IT 57579-83-6P 57579-87-0P 57579-88-1P

57579-89-2P 57579-90-5P 57579-91-6P

57579-95-0P 57579-97-2P 57579-99-4P

57580-00-4P 57580-04-8P 57580-06-0P

57580-08-2P 57580-09-3P 57580-10-6P

57580-11-7P 57580-12-8P 57580-13-9P

57580-15-1P 57580-16-2P 57580-17-3P

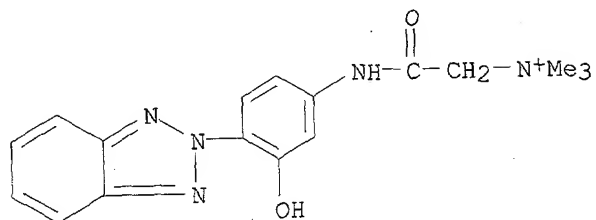
57588-32-6P 57639-65-3P

RL: PREP (Preparation)

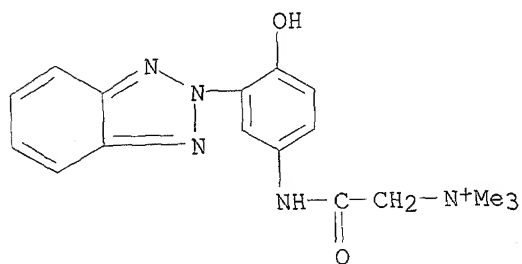
(prepn. of, as uv light stabilizer)

RN 57579-83-6 HCA

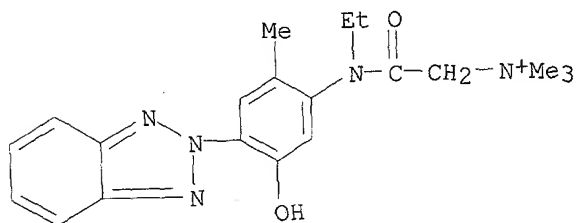
CN Ethanaminium, 2-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-N,N,N-  
trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

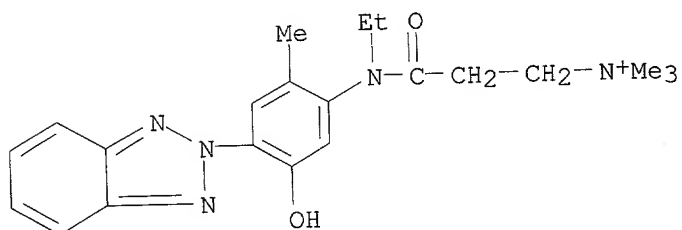
RN 57579-87-0 HCA  
 CN Ethanaminium, 2-[[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]amino]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 57579-88-1 HCA  
 CN Ethanaminium, 2-[[4-(2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenyl]ethylamino]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

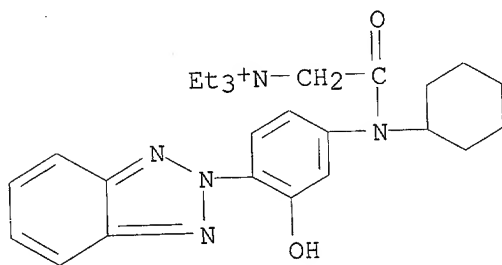
● Cl<sup>-</sup>

RN 57579-89-2 HCA  
 CN 1-Propanaminium, 3-[[4-(2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenyl]ethylamino]-N,N,N-trimethyl-3-oxo-, chloride (9CI) (CA INDEX NAME)



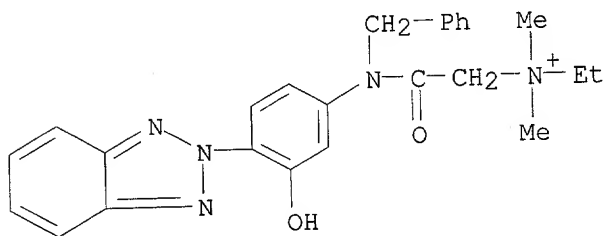
● Cl<sup>-</sup>

RN 57579-90-5 HCA  
 CN Ethanaminium, 2-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]cyclohexylamino  
 ]-N,N,N-triethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 57579-91-6 HCA  
 CN Ethanaminium, 2-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl](phenylmethyl)amino]-N-ethyl-N,N-dimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

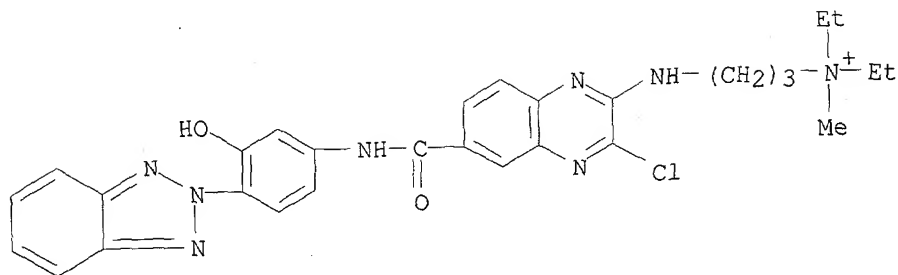


● Cl<sup>-</sup>

RN 57579-95-0 HCA  
 CN 1-Propanaminium, 3-[[[6-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]carbonyl]-3-chloro-2-quinoxaliny]amino]-N,N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 57579-94-9  
CMF C29 H32 Cl N8 O2



CM 2

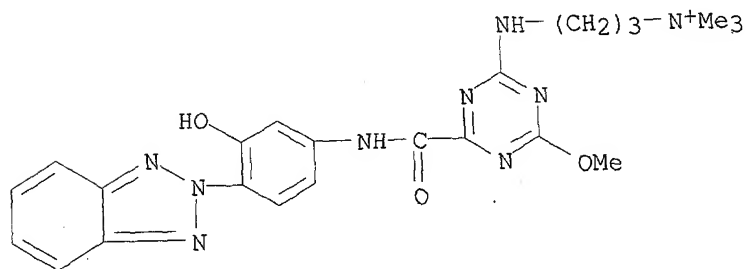
CRN 21228-90-0  
CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 57579-97-2 HCA  
CN 1-Propanaminium, 3-[[4-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]carbonyl]-6-methoxy-1,3,5-triazin-2-yl]amino]-N,N,N-trimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

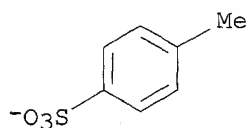
CM 1

CRN 57579-96-1  
CMF C23 H28 N9 O3



CM 2

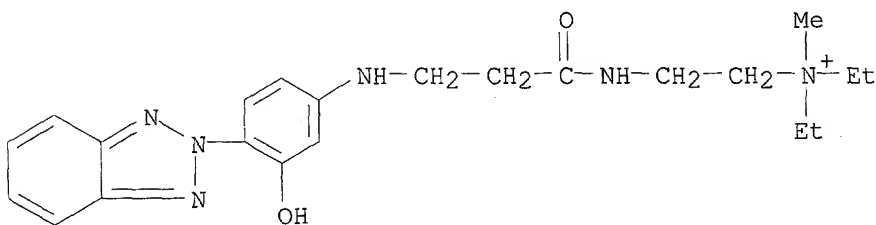
CRN 16722-51-3  
CMF C7 H7 O3 S



RN 57579-99-4 HCA  
 CN Ethanaminium, 2-[[3-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-1-oxopropyl]amino]-N,N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 57579-98-3  
 CMF C22 H31 N6 O2

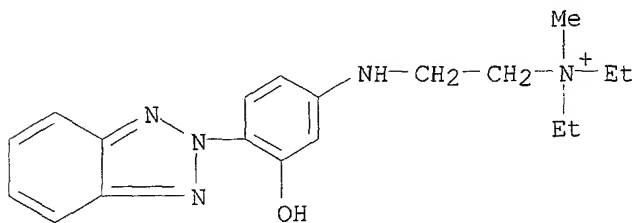


CM 2

CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO3<sup>-</sup>

RN 57580-00-4 HCA  
 CN Ethanaminium, 2-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-N,N-diethyl-N-methyl-, bromide (9CI) (CA INDEX NAME)

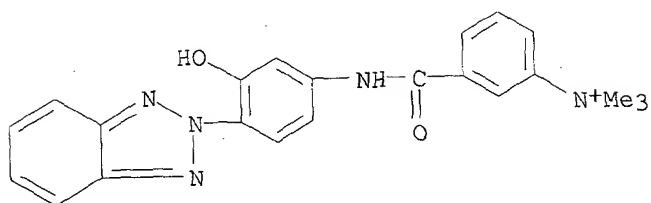


● Br<sup>-</sup>

RN 57580-04-8 HCA  
 CN Benzenaminium, 3-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]carbonyl]-N,N,N-trimethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)



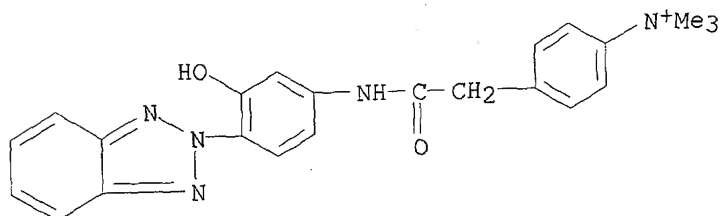
CM 1

CRN 57580-03-7  
CMF C22 H22 N5 O2

CM 2

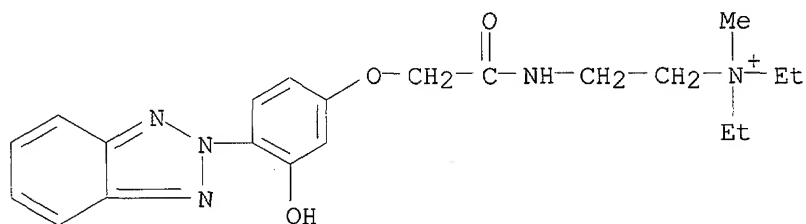
CRN 21228-90-0  
CMF C H3 O4 SMe-O-SO<sub>3</sub><sup>-</sup>RN 57580-06-0 HCA  
CN Benzenaminium, 4-[2-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-2-oxoethyl]-N,N,N-trimethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 57580-05-9  
CMF C23 H24 N5 O2

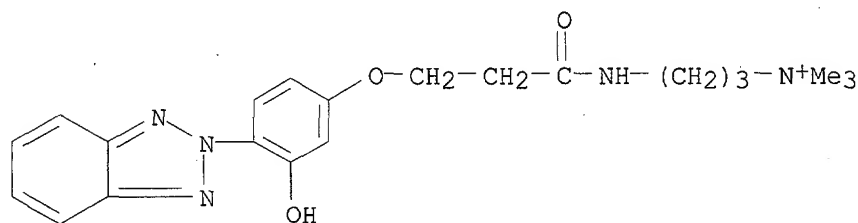
CM 2

CRN 21228-90-0  
CMF C H3 O4 SMe-O-SO<sub>3</sub><sup>-</sup>RN 57580-08-2 HCA  
CN Ethanaminium, 2-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]acetyl]amino]-N,N-diethyl-N-methyl-, chloride (9CI) (CA INDEX NAME)



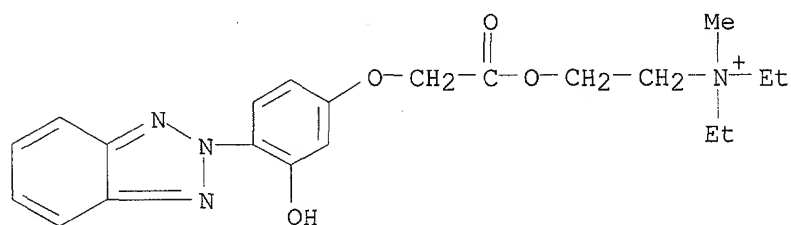
● Cl<sup>-</sup>

RN 57580-09-3 HCA  
 CN 1-Propanaminium, 3-[[3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



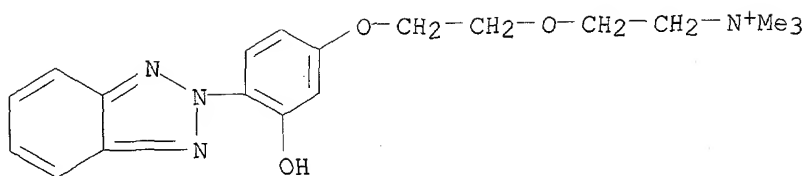
● Cl<sup>-</sup>

RN 57580-10-6 HCA  
 CN Ethanaminium, 2-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]acetyl]oxy]-N,N-diethyl-N-methyl-, chloride (9CI) (CA INDEX NAME)

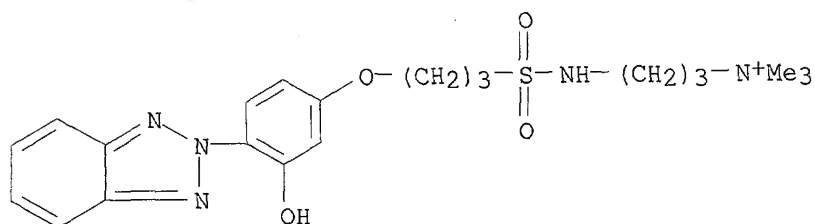


● Cl<sup>-</sup>

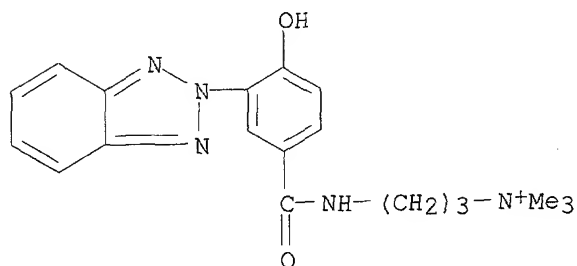
RN 57580-11-7 HCA  
 CN Ethanaminium, 2-[2-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]ethoxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 57580-12-8 HCA  
 CN 1-Propanaminium, 3-[[[3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]propyl]sulfonyl]amino]-N,N,N-trimethyl-, chloride (9CI)  
 (CA INDEX NAME)

● Cl<sup>-</sup>

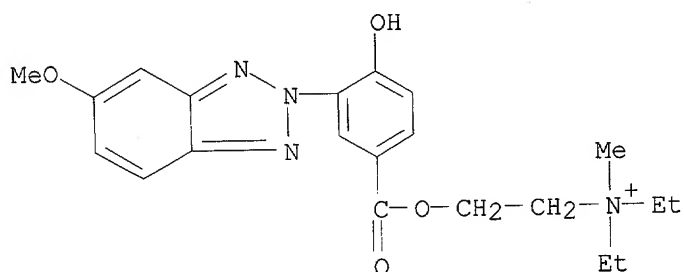
RN 57580-13-9 HCA  
 CN 1-Propanaminium, 3-[[[3-(2H-benzotriazol-2-yl)-4-hydroxybenzoyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 57580-15-1 HCA  
 CN Ethanaminium, N,N-diethyl-2-[[[4-hydroxy-3-(5-methoxy-2H-benzotriazol-2-yl)benzoyl]oxy]-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 57580-14-0  
CMF C21 H27 N4 O4

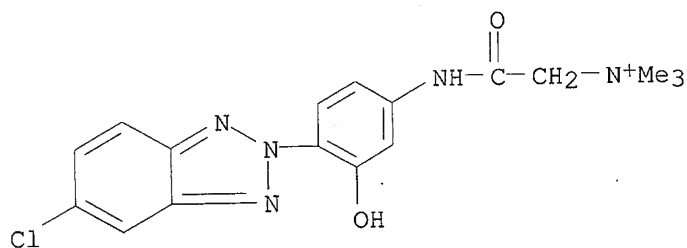


CM 2

CRN 21228-90-0  
CMF C H3 O4 S

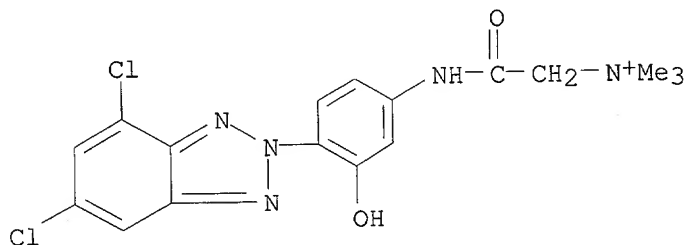
Me-O-SO<sub>3</sub><sup>-</sup>

RN 57580-16-2 HCA  
CN Ethanaminium, 2-[[4-(5-chloro-2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 57580-17-3 HCA  
CN Ethanaminium, 2-[[4-(4,6-dichloro-2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

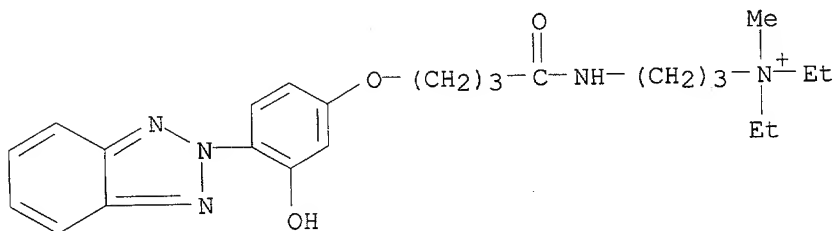


● Cl<sup>-</sup>

RN .57588-32-6 HCA  
 CN 1-Propanaminium, 3-[[4-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-1-oxobutyl]amino]-N,N-diethyl-N-methyl-, trichlorozincate(1-) (9CI) (CA INDEX NAME)

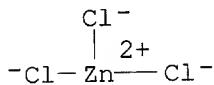
CM 1

CRN 57588-31-5  
 CMF C24 H34 N5 O3

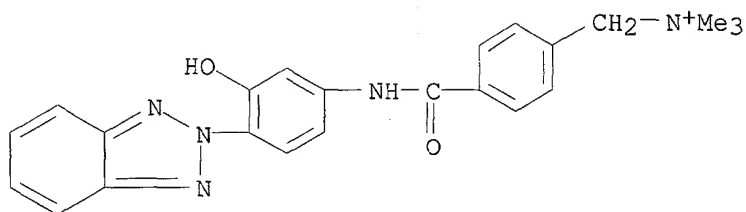


CM 2

CRN 23603-98-7  
 CMF C13 Zn  
 CCI CCS



RN 57639-65-3 HCA  
 CN Benzenemethanaminium, 4-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]carbonyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



\*\*\*\*\*

As you can see the utility of these records is not close to your application.  
I gave you a few records for your information

\*\*\*\*\*

=> d L57 1-25 ti

- L57 ANSWER 1 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Preparation of amino acid derivatives as NAD synthetase inhibitors
- L57 ANSWER 2 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Identification of ligand-binding regions of P-glycoprotein by activated-pharmacophore photoaffinity labeling and matrix-assisted laser desorption/ionization-time-of-flight mass spectrometry
- L57 ANSWER 3 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Regioselective photolabeling of glycophorin a in membranes
- L57 ANSWER 4 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI A class of potent antimalarials and their specific accumulation in infected erythrocytes
- L57 ANSWER 5 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Mid-membrane photolabeling of the transmembrane domain of glycophorin A in phospholipid vesicles
- L57 ANSWER 6 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Depth-dependent analysis of membranes using benzophenone-based phospholipids
- L57 ANSWER 7 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Studies on the topography of biomembranes: regioselective photolabeling in vesicles with the tandem use of cholesterol and a half-membrane phospholipid probe
- L57 ANSWER 8 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Synthesis, crystal structure and properties of N,N-dimethyl-N-[6-(benzoyl-4-phenoxy)hexamethylen]-N-n-dodecylammonium bromide: a new substantive UV filter
- L57 ANSWER 9 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Studies on the topography of biomembranes: regioselective photolabeling in vesicles with the tandem use of cholesterol and a photoactivable

## transmembrane phospholipidic probe

- L57 ANSWER 10 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Studies of the topography of biomembranes: the four-step synthesis of a photoactivatable transmembrane phospholipidic probe and its dideuterated analog
- L57 ANSWER 11 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Selectivity improvement of a simple photosensitive probe in the presence of a large amount of cholesterol
- L57 ANSWER 12 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Selective photolabeling in the center of bilayers with a photosensitive transmembrane probe
- L57 ANSWER 13 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Substantivity of sunscreens. In vitro evaluation of the transdermal permeation characteristics of some benzophenone derivatives
- L57 ANSWER 14 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Orientation of the benzophenone group at various depths in bilayers
- L57 ANSWER 15 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Conformation and dynamics in a solution of an N-quaternized cinnamide derivative: a molecule active as a UV filter
- L57 ANSWER 16 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Diels-Alder reactions of a surfactant 1,3-diene
- L57 ANSWER 17 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Preparation of O-phosphonocholine ester derivatives of drugs
- L57 ANSWER 18 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Topography of lactose permease from Escherichia coli
- L57 ANSWER 19 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Synthesis and properties of a photoreactive transmembrane probe
- L57 ANSWER 20 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI DSC studies of the phase transition behavior of synthetic bilayer membranes. Part II. Bilayer membranes of single-chain and triple-chain amphiphiles
- L57 ANSWER 21 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI UV stabilizers for plastics
- L57 ANSWER 22 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI 1-Palmitoyl-2-(p-benzoyl)benzoyl phosphatidylcholine, a photoactive phospholipid for the labeling of membrane components
- L57 ANSWER 23 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI [[(Aminomethyl)aryl]oxy]acetic acid esters. A new class of high-ceiling diuretics. 1. Effects of nitrogen and aromatic nuclear substitution
- L57 ANSWER 24 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI 5-Nitro-2-[(trimethylammonio)acetamido]benzophenone bromide
- L57 ANSWER 25 OF 25 HCA COPYRIGHT 2003 ACS on STN  
TI Activity of some quaternary salts of .beta.-arylhydroxyethylaralkylammonium in experimental helminthiasis in white mice

=> d L57 8,11,13,14,15,23,24 cbib abs hitstr

L57 ANSWER 8 OF 25 HCA COPYRIGHT 2003 ACS on STN

128:248330 Synthesis, crystal structure and properties of N,N-dimethyl-N-[6-(benzoyl-4-phenoxy)hexamethylen]-N-n-dodecylammonium bromide: a new substantive UV filter. Anselmi, C.; Centini, M.; Francioli, M.; Sega, A. (Istituto di Chimica Organica, Universita di Siena, Italy). Acta Technologiae et Legis Medicamenti, 8(2), 85-93 (English) 1997. CODEN: ATLMEQ. ISSN: 1121-2098. Publisher: Casa Editrice Maccari.

AB N,N-dimethyl-N-[6-(benzoyl-4-phenoxy)hexamethylene]-N-n-dodecylammonium bromide was prepd. its substantivity and antimicrobial properties were evaluated, and the solid-state conformation was detd. by single crystal x-ray diffraction. The conformation of the mol., which has been shown to play a fundamental role for the antibacterial activity of these compds., presents an extensive folding of the n-dodecyl chain back towards and along the arom. moiety. Coiled conformations that have been assocd. with antibacterial properties and skin irritation phenomena are absent.

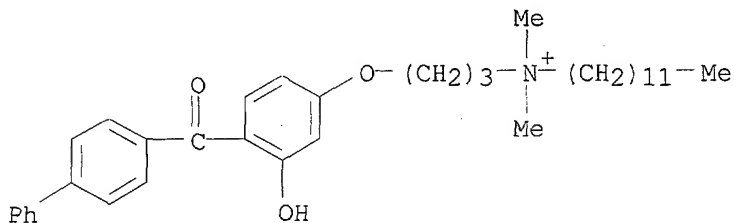
IT 204852-25-5

RL: PRP (Properties)

(prepn. and crystal structure and properties of benzoylphenoxyhexamethylenedodecylammonium bromide as substantive UV filter)

RN 204852-25-5 HCA

CN 1-Dodecanaminium, N-[3-[4-([1,1'-biphenyl]-4-ylcarbonyl)-3-hydroxyphenoxy]propyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



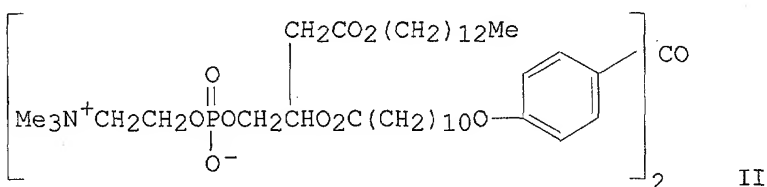
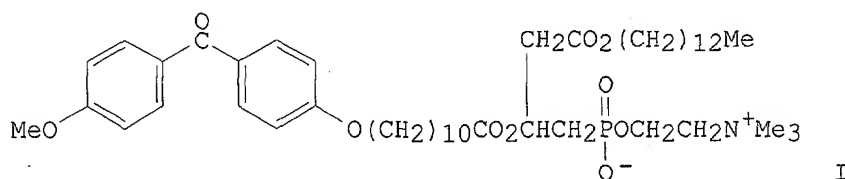
● Br<sup>-</sup>

L57 ANSWER 11 OF 25 HCA COPYRIGHT 2003 ACS on STN

121:174527 Selectivity improvement of a simple photosensitive probe in the presence of a large amount of cholesterol. Fredriksen, Siw Bodil; Dolle, Valerie; Yamamoto, Masakuni; Nakatani, Yoichi; Goeldner, Maurice; Ourisson, Guy (Univ. Louis Pasteur, Strasbourg, F-67084, Fr.). Angewandte Chemie, 106(11), 1230-2 (See also Angew. Chem., Int. Ed. Engl., (1994), 33(11), 1176-8) (German) 1994. CODEN: ANCEAD. ISSN: 0044-8249. OTHER SOURCES: CASREACT 121:174527.

GI





AB The photoactivatable phospholipid transmembrane probe I, a half mol. of the previously described II, was easily synthesized, and its advantageous properties recommend its use for the investigation of inner membrane topog., esp. in relation to membrane proteins.

IT 116113-36-1

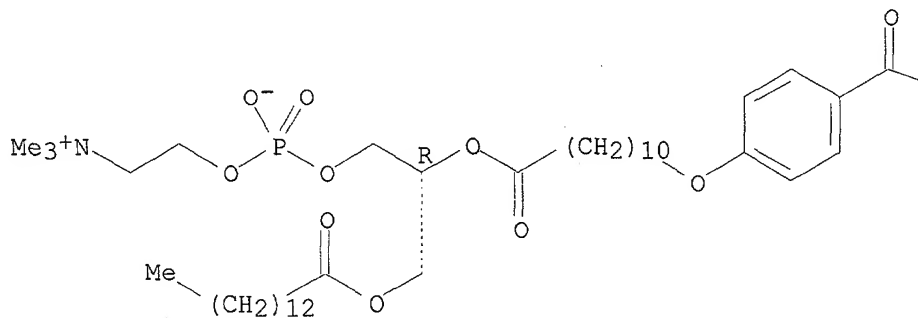
RL: ANST (Analytical study)  
(photosensitive membrane probe based on)

RN 116113-36-1 HCA

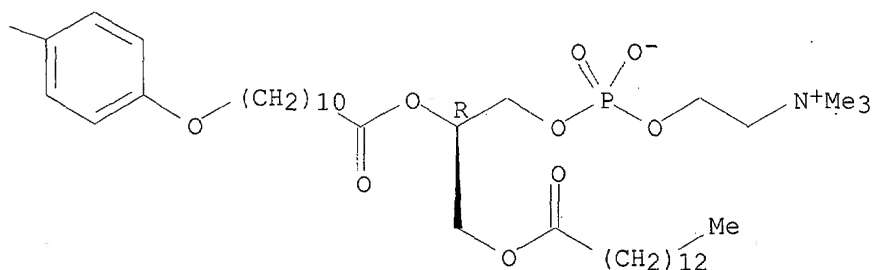
CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 7,7'-[carbonylbis[4,1-phenyleneoxy(1-oxo-11,1-undecanediyl)oxy]]bis[4-hydroxy-N,N,N-trimethyl-10-oxo-, bis(inner salt), 4,4'-dioxide, (7R,7'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



IT 157622-82-7P

RL: PREP (Preparation)

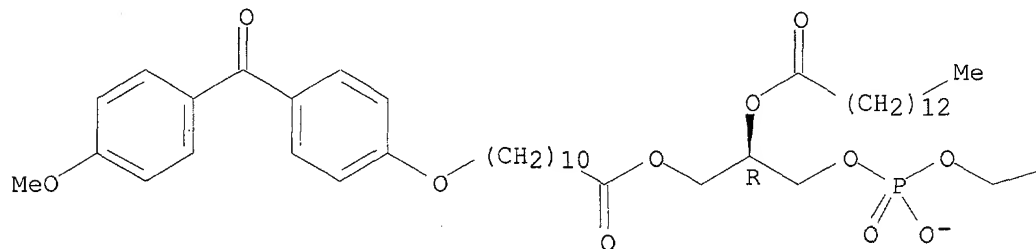
(prepn. of, as photosensitive membrane probe)

RN 157622-82-7 HCA

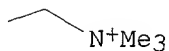
CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 4-hydroxy-7-[[11-[4-(4-methoxybenzoyl)phenoxy]-1-oxoundecyl]oxy]-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L57 ANSWER 13 OF 25 HCA COPYRIGHT 2003 ACS on STN

119:15087 Substantivity of sunscreens. In vitro evaluation of the transdermal permeation characteristics of some benzophenone derivatives. Monti, D.; Saettone, M. F.; Centini, M.; Anselmi, C. (Lab. Technol. Farm. Biofarm., Univ. Pisa, Pisa, I-56100, Italy). International Journal of Cosmetic Science, 15(2), 45-52 (English) 1993. CODEN: IJCMDW. ISSN: 0142-5463.

AB The in vitro permeation through excised hairless mouse skin of a series of 4-O-(N,N-dimethylaminoalkyl)benzophenones, nonquaternized, and of 2 com.

benzophenone sunscreens, taken as ref. compds., was investigated. The aim of the study was to verify the skin penetration of the highly skin-substantive quaternary ammonium derivs., in comparison with their parent, nonquaternized compds. While the quaternary derivs. were unable to permeate the skin during the period of observation (45 h), their parent amine hydrochlorides and the ref. sunscreens (2-hydroxy-4-methoxybenzophenone-5-sulfonic acid and 2,2'-dihydroxy-4,4'-dimethoxybenzophenone 5,5'-sodium disulfonate), showed appreciable transdermal fluxes. These data indicate that the presence of a quaternary ammonium group in a mol., besides inducing a high affinity for cutaneous keratin, may result in hindered or reduced transdermal (and possibly systemic) absorption. Both features may contribute in improving the safety of a cosmetic sunscreen.

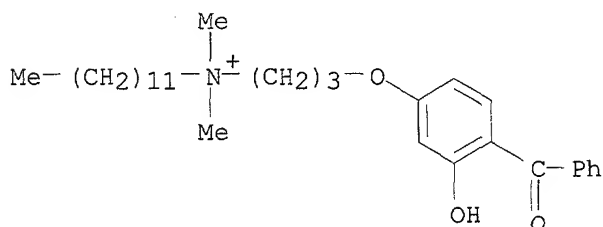
IT 145300-38-5 148193-41-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(penetration of, in vitro, through hairless skin, sunscreens substantivity in relation to)

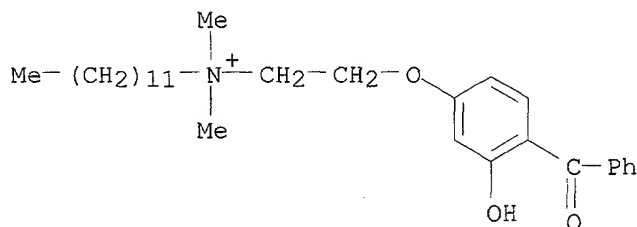
RN 145300-38-5 HCA

CN 1-Dodecanaminium, N-[3-(4-benzoyl-3-hydroxyphenoxy)propyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 148193-41-3 HCA

CN 1-Dodecanaminium, N-[2-(4-benzoyl-3-hydroxyphenoxy)ethyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L57 ANSWER 14 OF 25 HCA COPYRIGHT 2003 ACS on STN

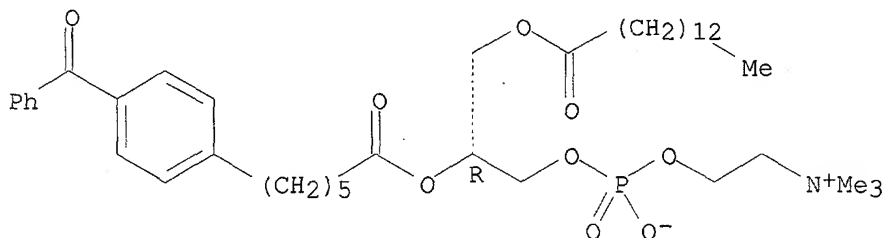
118:229633 Orientation of the benzophenone group at various depths in bilayers. Lala, Anil K.; Kumar, E. Ravi (Dep. Chem., Indian Inst. Technol., Bombay, 400076, India). Journal of the American Chemical Society, 115(10), 3982-8 (English) 1993. CODEN: JACSAT. ISSN: 0002-7863.

AB The hydrophobic core of biol. membranes is primarily composed of fatty acyl chains of lipids and side chains of nonpolar amino acids belonging to membrane-spanning domains of transmembrane proteins. Electron transport across the 35-40-Å membrane dielec. takes place via suitably oriented electron-transfer groups assocd. with transmembrane domains of membrane-bound proteins. It is proposed here that the design of lipids bearing electron-transport groups oriented at different depths can provide

the necessary supramol. assembly in the form of a monolayer or a bilayer to carry out electron transfer. The design of these modified lipids is crucial to the success of such a mol. device. Here the design and synthesis of three benzophenone-based phospholipids capable of orienting the benzophenone group at different depths in a bilayer are reported. The orientation of the benzophenone group was detd. by photochem. crosslinking of these lipids with dimyristoylphosphatidylcholine in single bilayer vesicles followed by mass spectral analyses of the cross-linked products. The actual site of crosslinking on the myristoyl chain was detd., and it was obsd. that a range of carbon atoms are functionalized. The range of carbon atoms functionalized was found to be centered around the position expected from the transverse location of the benzophenone-based phospholipid in the bilayer. The data could be best interpreted in terms of zones of carbon atoms functionalized rather than any discrete site. This is in keeping with the current models of membranes which suggest the presence of a fluid gradient as one goes down the fatty acyl chain in the membrane. However, the range of carbon atoms functionalized was narrowed with probes reported here. The use of a hydrophobic tail attached to the benzophenone group assisted in directing the orientation of the photoactive group at different depths. Besides providing an effective design strategy for the orientation of electron-transfer groups at different depths in a bilayer, the high insertion yield and the depth-dependent labeling obsd. in artificial membranes suggest that the benzophenone-based phospholipids reported here could also prove useful for studying the structure of single and multiple spanning transmembrane proteins.

IT 147299-40-9P 147299-41-0P 147299-42-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and membrane orientation of)  
 RN 147299-40-9 HCA  
 CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 7-[[6-(4-benzoylphenyl)-1-oxohexyl]oxy]-4-hydroxy-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide, (7R)- (9CI) (CA INDEX NAME)

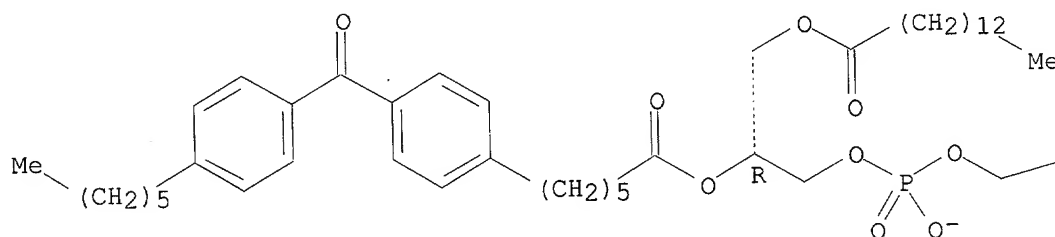
Absolute stereochemistry.



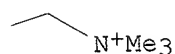
RN 147299-41-0 HCA  
 CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 7-[[6-[4-(4-hexylbenzoyl)phenyl]-1-oxohexyl]oxy]-4-hydroxy-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide, (7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



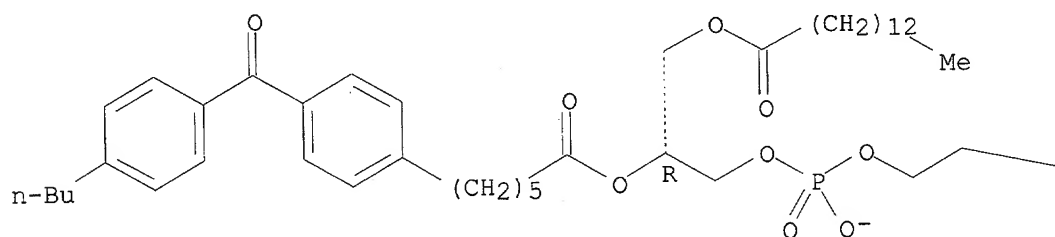
PAGE 1-B



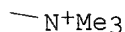
RN 147299-42-1 HCA  
 CN 3,5,9-Trioxa-4-phosphatridecan-1-aminium, 7-[[6-[4-(4-butylbenzoyl)phenyl]-1-oxohexyl]oxy]-4-hydroxy-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L57 ANSWER 15 OF 25 HCA COPYRIGHT 2003 ACS on STN  
 118:59067 Conformation and dynamics in a solution of an N-quaternized cinnamide derivative: a molecule active as a UV filter. Anselmi,

Cecilia; Centini, Marisanna; Scotton, Mirella; Segal, Alessandro (Ist. Chim. Org., Siena, 53100, Italy). Magnetic Resonance in Chemistry, 30(10), 944-9 (English) 1992. CODEN: MRCHEG. ISSN: 0749-1581.

AB The dynamics and conformation of N,N-dimethyl-N-[3-(4-methoxy-trans-cinnamoylamino)propyl]-N-n-dodecylammonium bromide (I) are detd. in CDCl<sub>3</sub> or DMSO-d<sub>6</sub> by the use of <sup>13</sup>C spin-lattice relaxation rates, nonselective and selective proton spin-lattice relaxation rates and <sup>1</sup>H-(<sup>1</sup>H) NOE expts. The 2 solvents affect the conformation of the cinnamide moiety in different ways. This alters the anchor capacity of the moiety towards the alkyl chain and, as a consequence, the dynamics of I in CDCl<sub>3</sub> and DMSO-d<sub>6</sub> show understandable differences. The main mean conformations of I in both solvents are linear. The data do not allow the rationalization of the relation between conformation and sunscreen efficiency.

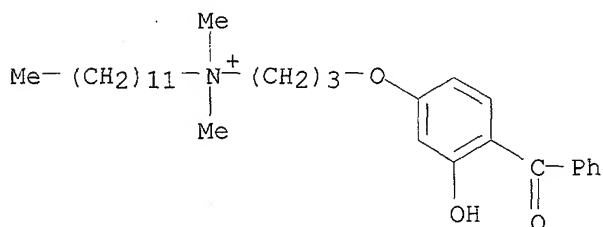
IT 145300-38-5

RL: PRP (Properties)

(coiling of dodecyl chain in, antibacterial and skin irradiation activity in relation to)

RN 145300-38-5 HCA

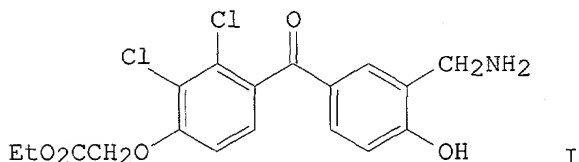
CN 1-Dodecanaminium, N-[3-(4-benzoyl-3-hydroxyphenoxy)propyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L57 ANSWER 23 OF 25 HCA COPYRIGHT 2003 ACS on STN

101:230080 [[(Aminomethyl)aryl]oxy]acetic acid esters. A new class of high-ceiling diuretics. 1. Effects of nitrogen and aromatic nuclear substitution. Lee, Cheuk Man; Plattner, Jacob J.; Ours, C. Wayne; Horrom, Bruce W.; Smital, Jill R.; Martin, Yvonne C.; Pernet, Andre G.; Bunnell, Paul R.; El Masry, Souheir E.; Dodge, Patrick W. (Div. Pharmacol. Med. Chem., Abbott Lab., North Chicago, IL, 60064, USA). Journal of Medicinal Chemistry, 27(12), 1579-87 (English) 1984. CODEN: JMCMAR. ISSN: 0022-2623. OTHER SOURCES: CASREACT 101:230080.

GI



AB A series about 60 of Mannich bases and aminomethyl derivs. of Et [2,3-dichloro-4-(4-hydroxybenzoyl)phenoxy]acetate were synthesized and tested for saluretic and diuretic activities. Thus, [2,3-dichloro-4-(4-hydroxybenzoyl)phenoxy]acetic acid was aminomethylated with ClCH<sub>2</sub>CONHCH<sub>2</sub>OH and the product esterified with EtOH to give Et [2,3-dichloro-4-[3-

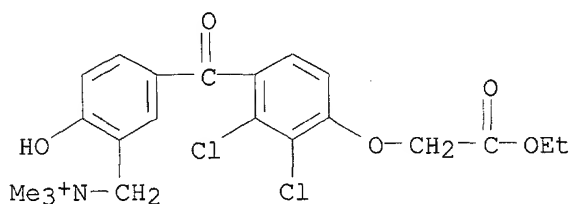
(aminomethyl)-4-hydroxybenzoyl]phenoxy]acetate (I). The effects of nitrogen and arom. nuclear substitution, reorientation of the aminomethyl group relative to that of the phenolic hydroxyl group, and replacement of either the phenolic hydroxyl or the aminomethyl group by other functional groups are described. I was found to be a very potent, high-ceiling diuretic.

IT **92270-36-5P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. and diuretic activity of)

RN 92270-36-5 HCA

CN Benzenemethanaminium, 5-[2,3-dichloro-4-(2-ethoxy-2-oxoethoxy)benzoyl]-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L57 ANSWER 24 OF 25 HCA COPYRIGHT 2003 ACS on STN

92:22215 5-Nitro-2-[(trimethylammonio)acetamido]benzophenone bromide.  
Bogatskii, A. V.; Shmigel, T. M.; Rudenko, O. P.; Andronati, S. A. (USSR).  
Khimicheskaya Promyshlennost, Seriya: Reaktivy i Osobo Chistye  
Veshchestva (2), 28-9 (Russian) 1979. CODEN: KSRVDF.

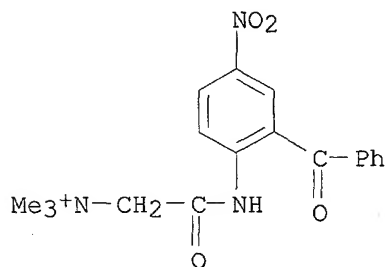
AB Quaternization of 4,2-X(PhCO)C6H3NHCOCH2Br (X = O2N, Cl, Br) with R3N (R = Me, Et) in C6H6 to give .apprx.72% 4,2-X(PhCO)C6H3NHCOCH2NR3+ Br-, which have hypotensive activity (no data).

IT **72220-44-1P 72220-45-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

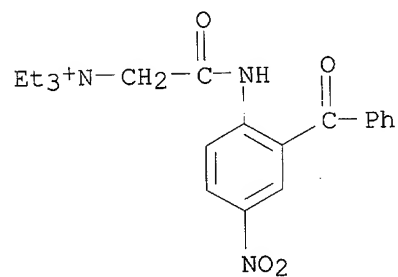
RN 72220-44-1 HCA

CN Ethanaminium, 2-[(2-benzoyl-4-nitrophenyl)amino]-N,N,N-trimethyl-2-oxo-, bromide (9CI) (CA INDEX NAME)



Br<sup>-</sup>

RN 72220-45-2 HCA  
CN Ethanaminium, 2-[(2-benzoyl-4-nitrophenyl)amino]-N,N,N-triethyl-2-oxo-,  
bromide (9CI) (CA INDEX NAME)





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